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# 1982—83 DIRECTORY OF MINORITY ENGINEERING PROGRAMS

## An Institutional Guide to Minorities and Women in Engineering

1982-83 DIRECTORY OF MINORITY ENGINEERING PROGRAMS

Author: Marion L. Oliver • Publisher: CPC Foundation

# 1982—83

# DIRECTORY OF MINORITY ENGINEERING PROGRAMS

## An Institutional Guide to Minorities and Women in Engineering

# THE AUTHOR

Marion L. Oliver is the Associate Provost of the University of Pennsylvania, a position he assumed in May 1982 after spending the 1981-82 academic year as a Visiting Associate Professor of Quantitative Methods and Policy Analysis at the University of Pittsburgh's Graduate School of Public and Urban Affairs. Previously he was Provost and Vice President for Academic Affairs at Millersville (Pa.) State College.

Dr. Oliver was at Carnegie-Mellon University from 1967 to 1979, first as a student and then as a staff member. He was awarded an M.S. degree in mathematics in 1969 and a Ph.D. in continuum mechanics in 1971. He then spent considerable time and effort helping to develop the Carnegie-Mellon Action Project, universally referred to as C-MAP. In 1974 he was appointed Associate Dean in the School of Urban and Public Affairs and for the next five years he served concurrently in this position and as director of C-MAP.

Dr. Oliver is a 1965, Phi Beta Kappa graduate of Fisk University. He spent the following year at Oberlin College on a Rockefeller Foundation Fellowship and then worked as a scientific programmer for the Westinghouse Bettis Atomic Power Laboratory before going to Carnegie-Mellon to resume his studies.

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When one takes on a project such as this, one does not have a realistic appreciation of the magnitude of such a project. After much interaction with Dr. Catherine M. Kandefer, Manager of The CPC Foundation, and Carole Morning, Vice President of the National Action Council for Minorities in Engineering, Inc., one realizes such a project could never be completed without the help of many.

Much gratitude and appreciation are due also to the individuals of the 276 participating institutions. The extent to which this Directory is a useful document is a result of their dedication, concern, and painstaking attention to the requests made of them.

I also wish to thank Doris Haines, Administrative Assistant to the Director of the Carnegie-Mellon Action Project (C-MAP), and Terri Nicholou for their professional assistance in helping me organize and prepare the Directory for publication.

M.L.O.

# FOREWORD

On December 20, 1979, Olin Corporation Charitable Trust presented The CPC Foundation a grant which would be paid over a three-year period of time. It was decided that the grant would be restricted to research relating to minority science and engineering graduates.

Dr. Marion Oliver, Associate Provost of the University of Pennsylvania, was asked to submit to The CPC Foundation a research proposal relating to minority science and engineering graduates. The proposal suggested that a publication be developed to serve as a reference document to employers for information on college and university minority engineering programs. The publication would describe minority engineering program activities and also provide cross-references of programs by enrollment success, retention, and graduate success.

Several years ago the National Action Committee on Minorities in Engineering published a directory which is out of date. Its content precluded it from being used by a corporation to make a cost/benefit analysis regarding sources of minority engineering graduates and funding decisions. With this in mind, this Directory was then designed to address the above issues, along with (1) identifying services offered by institutions, (2) contact people, including titles, phone numbers, etc., and (3) a summary of enrollment data by class which can be updated annually.

In July 1981, Marion Oliver was given a contract from The CPC Foundation to produce this Directory.

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# INTRODUCTION

A study, *Minorities in Engineering: A Blueprint for Action*, sponsored by The Sloan Foundation, was published in 1974. The study was intended to be a blueprint for a national effort to achieve parity representation of under-represented[1] minorities in engineering in 1983. In 1974, the year the blueprint was released, of the total full-time undergraduate engineering enrollment of 197,899 students, only 9,837 or 5 percent were minorities[2]. That same year, of the 38,210 degrees awarded to undergraduates, 1,463 or 4 percent were awarded to minorities.

The enrollment data for the Fall of 1981, though clearly indicating that parity enrollment for minorities will not be achieved in the near future, does show equally clearly that considerable progress has been made. In spite of the fact that the total undergraduate enrollment went from 197,899 in the Fall of 1974 to 384,162 in the Fall of 1981, an increase of 194 percent, minority representation increased to 28,871 students or 7 percent of the total. Looked at another way, these 28,871 students in Fall of 1981 represented an increase of 293 percent over the Fall of 1974 enrollment. And, if total enrollment in engineering had remained constant throughout the seven-year period from 1974 to 1981, minority representation in 1981-82 would have been 15 percent.

While considerable progress has been made, much work remains to be done. Among the group receiving degrees, minority representation was 4 percent in 1974-75 (1,463 out of 38,210 degrees awarded). In 1981-82, it remained 4 percent (2,728 out of 62,935 degrees awarded).

A comparison of the slopes of the graphs of the Fall 1982 enrollment data and the slopes of the graphs of the degrees awarded data over the same period, displayed respectively in Charts 1 and 2, pinpoints one of the major problems limiting the success of the national effort: attrition. No one seriously engaged in the effort to increase minority representation in engineering is unaware of the problem engineering schools face in retaining and graduating minorities.

Several national and regional conferences have been sponsored to discuss and address the problem. Much has been learned about the factors contributing to the attrition of minority engineering students, and this knowledge, a great deal of which is the trial-and-error cumulative wisdom of the Directors of Minority Engineering Programs, is being shared through personal contacts, conference participation, and research publications. This directory has been published to facilitate this sharing of experience between schools and other interested parties. It is my hope that it will be received and used in that light.

The Directory is divided into three main parts: Minority and Female Enrollments in Engineering: Fall 1973 - Fall 1981; charts of the enrollment data and graduation data; and descriptions of institutions, their support programs for minorities and women, and their Fall 1981 and Fall 1982 enrollment data.

In most cases, the Fall 1982 enrollment data are estimates which were approved by the participating schools. In some cases, however, the data reported are based on actual Fall enrollment reports from the institutions. It should be pointed out that the estimated enrollment data were computed using the enrollment data reported in the Fall 1979, Fall 1980, and Fall 1981 Engineering Manpower Commission reports published by the Joint Council of the American Society of Engineering Education. A careful review of the data, coupled with the fact that only three years of data were used, would suggest that the estimates for the Fall 1982 enrollments should be viewed and used with caution.

MARION L. OLIVER
*Associate Provost*
*University of Pennsylvania*

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[1] American Indians, Blacks, and Puerto Ricans, and Mexican-Americans.

[2] All data on minorities in this directory exclude enrollment at the University of Puerto Rico.

# MINORITY AND FEMALE ENROLLMENT IN ENGINEERING: FALL 1973-FALL 1981

The National Minority Engineering Effort was formally launched during the 1973-74 academic year. At that time, American Indians, Blacks, and Hispanics made up approximately 4.7 percent of the total full-time undergraduate enrollment in engineering. During the same period, women comprised approximately 3.2 percent of the total full-time undergraduate enrollment. Eight years later, in 1981-82, the percentage representations of minorities and women were 8.3 percent and 14.5 percent respectively.

The reasons for the significant increase in the percentage representation of women, compared with the increase in the percentage representation of minorities, are clear: better academic preparation, better access to role models, better access to financial resources, better motivation, etc. Each of these reasons speaks to the need for the kind of academic and personal support programs described in this Directory.

While the data on enrollment and number of graduates displayed in Tables 1 to 3 are self-explanatory, the slopes of the graphs of the first-year enrollments and BS degrees-awarded data displayed in Charts 1 and 2 do provide additional comparative information regarding the rates at which progress is being made by the different minority groups and women.

More revealing than the information in Charts 1 and 2, however, is the information contained in the graphs on the percentage representation of minorities and women in first-year enrollment, total enrollment and BS degrees awarded. These graphs are displayed in Charts 3 and 5. The trends displayed in these graphs are vividly clear and need no elaboration.

### *TABLE I*

### FIRST-YEAR ENROLLMENTS IN ENGINEERING MINORITIES AND WOMEN

### Fall 1973 - Fall 1981

| YEAR | BLACKS | (%) | HISPANICS | (%) | AMERICAN INDIANS | (%) | WOMEN | (%) |
|---|---|---|---|---|---|---|---|---|
| 1973-74 | 2130 | (4.1) | 790 | (1.5) | 67 | (.13) | 2417 | (4.7) |
| 1974-75 | 2848 | (4.5) | 1068 | (1.7) | 102 | (.16) | 4266 | (6.7) |
| 1975-76 | 3840 | (5.1) | 1384 | (1.8) | 120 | (.16) | 6730 | (8.9) |
| 1976-77 | 4372 | (5.3) | 1766 | (2.1) | 171 | (.21) | 8545 | (10.4) |
| 1977-78 | 4728 | (5.3) | 2161 | (2.4) | 216 | (.24) | 9921 | (11.2) |
| 1978-79 | 5493 | (5.7) | 2644 | (2.8) | 225 | (.23) | 11,789 | (12.3) |
| 1979-80 | 6339 | (6.1) | 3136 | (3.0) | 317 | (.31) | 14,031 | (13.5) |
| 1980-81 | 6661 | (6.0) | 4208 | (3.8) | 365 | (.33) | 16,004 | (14.5) |
| 1981-82 | 7015 | (6.1) | 4768 | (4.1) | 412 | (.36) | 18,238 | (15.8) |

NOTE: The data for Hispanics does not include the University of Puerto Rico.

*continued*

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## *TABLE 2*

### TOTAL ENROLLMENT IN ENGINEERING MINORITIES AND WOMEN

### Fall 1973 - Fall 1981

| YEAR | BLACKS | (%) | HISPANICS | (%) | AMERICAN INDIANS | (%) | WOMEN | (%) |
|---|---|---|---|---|---|---|---|---|
| 1973-74 | 5508 | (3.0) | 2769 | (1.5) | 281 | (.15) | 6064 | (3.2) |
| 1974-75 | 6827 | (3.4) | 3380 | (1.7) | 323 | (.16) | 9829 | (4.9) |
| 1975-76 | 8389 | (3.6) | 4111 | (1.8) | 328 | (.14) | 15,852 | (6.9) |
| 1976-77 | 9828 | (3.8) | 5138 | (2.0) | 446 | (.17) | 21,936 | (8.3) |
| 1977-78 | 11,388 | (3.9) | 5944 | (2.1) | 547 | (.19) | 28,773 | (9.9) |
| 1978-79 | 12,954 | (4.2) | 7158 | (2.3) | 625 | (.20) | 34,518 | (11.1) |
| 1979-80 | 14,786 | (4.3) | 8454 | (2.5) | 759 | (.22) | 42,027 | (12.3) |
| 1980-81 | 16,181 | (4.4) | 11,860 | (3.2) | 903 | (.25) | 48,944 | (13.4) |
| 1981-82 | 17,611 | (4.5) | 13,615 | (3.5) | 970 | (.25) | 56,049 | (14.5) |

NOTE: The data for Hispanics does not include the University of Puerto Rico.

## *TABLE 3*

### MINORITY AND WOMEN ENGINEERING GRADUATES

### 1973 - 1981

| YEAR | BLACKS | (%) | HISPANICS | (%) | AMERICAN INDIANS | (%) | WOMEN | (%) |
|---|---|---|---|---|---|---|---|---|
| 1973-74 | 756 | (1.8) | 640 | (1.5) | 31 | (.07) | 744 | (1.8) |
| 1974-75 | 734 | (1.9) | 685 | (1.8) | 44 | (.12) | 878 | (2.3) |
| 1975-76 | 777 | (2.0) | 680 | (1.8) | 41 | (.12) | 1376 | (3.6) |
| 1976-77 | 844 | (2.1) | 702 | (1.8) | 36 | (.09) | 1961 | (4.9) |
| 1977-78 | 901 | (2.0) | 756 | (1.6) | 38 | (.08) | 3280 | (7.1) |
| 1978-79 | 1076 | (2.0) | 841 | (1.6) | 59 | (.11) | 4716 | (9.0) |
| 1979-80 | 1320 | (2.2) | 1003 | (1.7) | 60 | (.10) | 5680 | (9.7) |
| 1980-81 | 1445 | (2.3) | 1193 | (1.9) | 90 | (.14) | 6557 | (1.04) |

NOTE: The data on Hispanics does not include the University of Puerto Rico.

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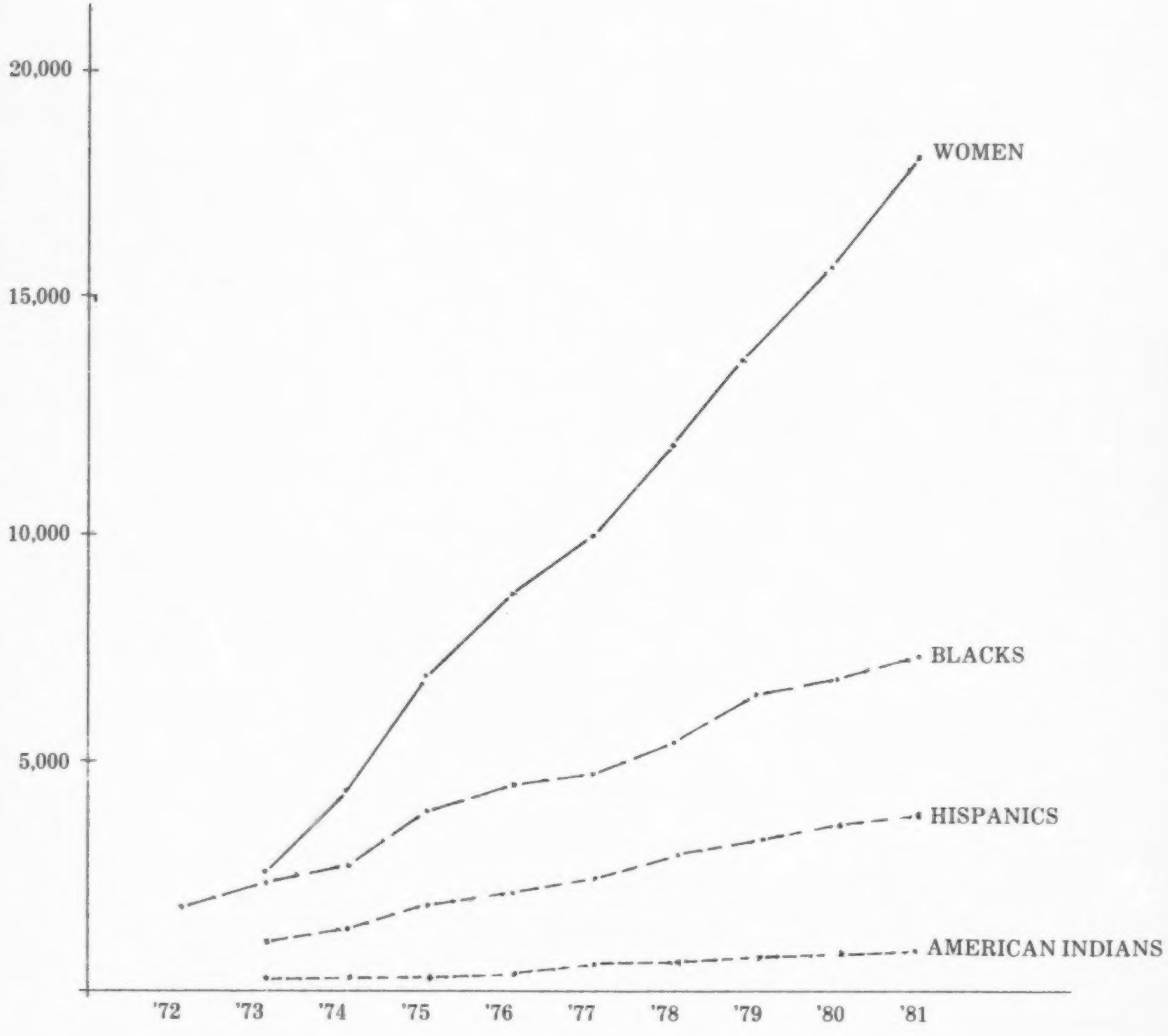
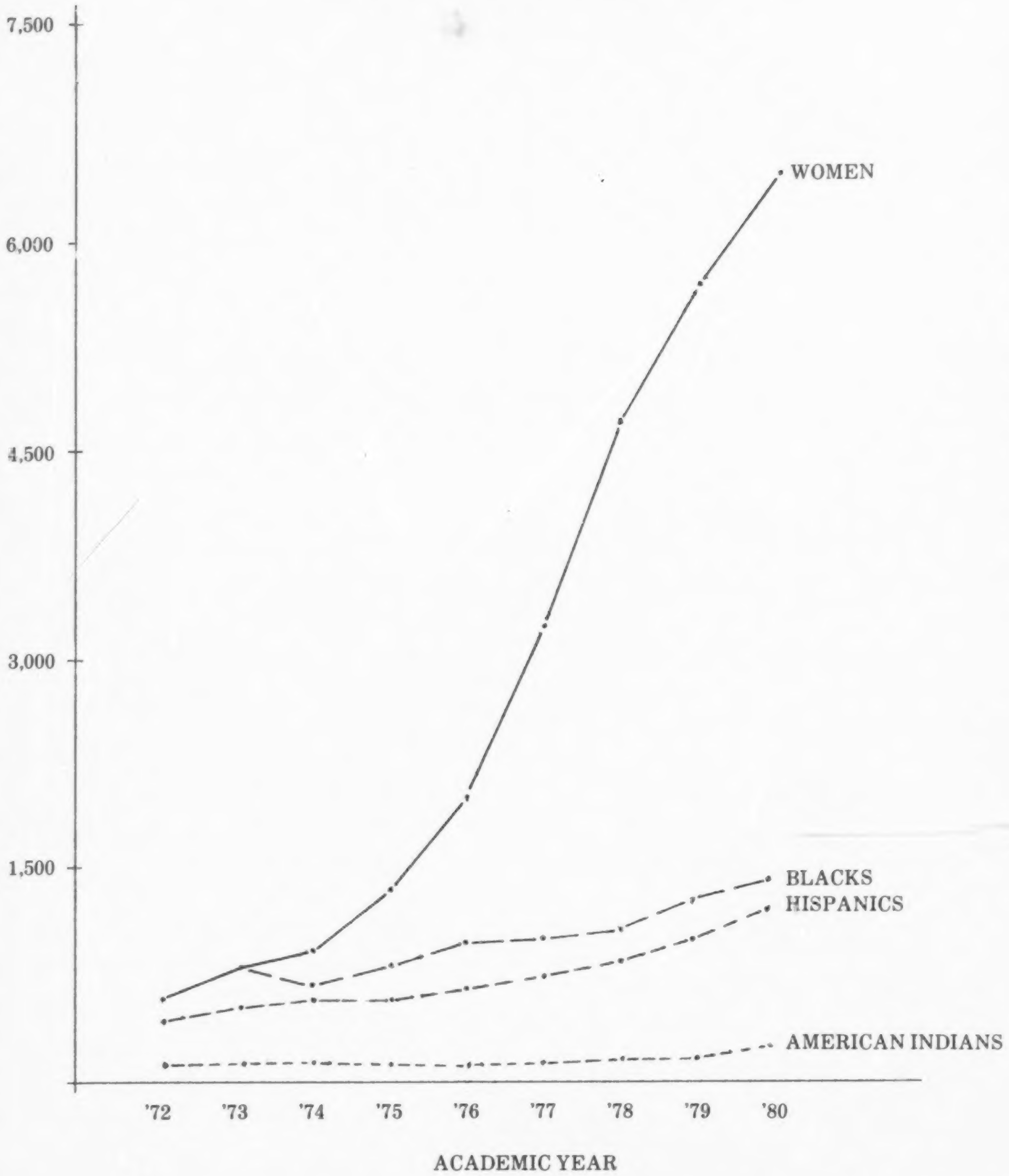
## *CHART 1*

## FRESHMEN ENROLLMENTS



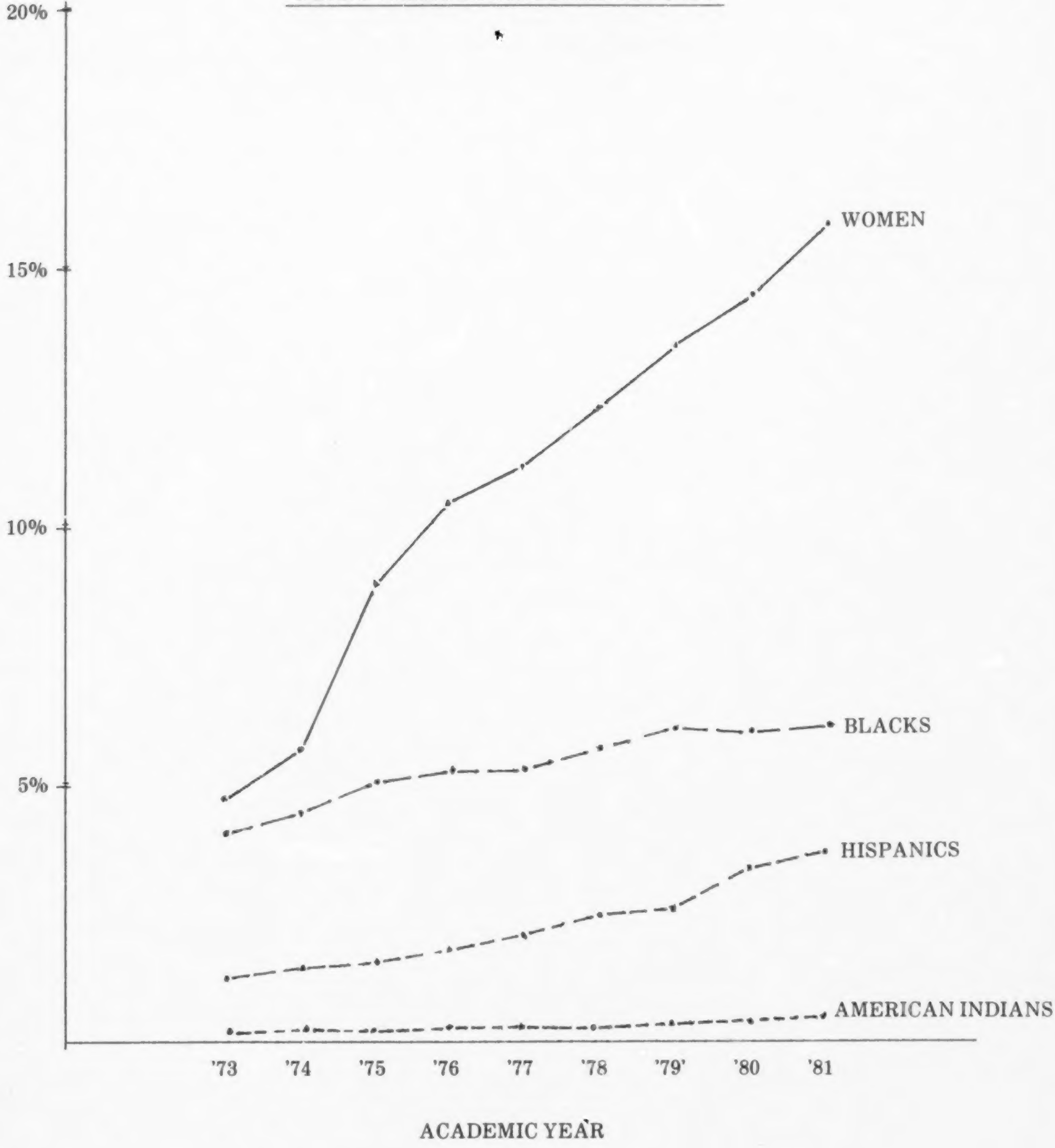
## *CHART 2*

## BS DEGREES AWARDED



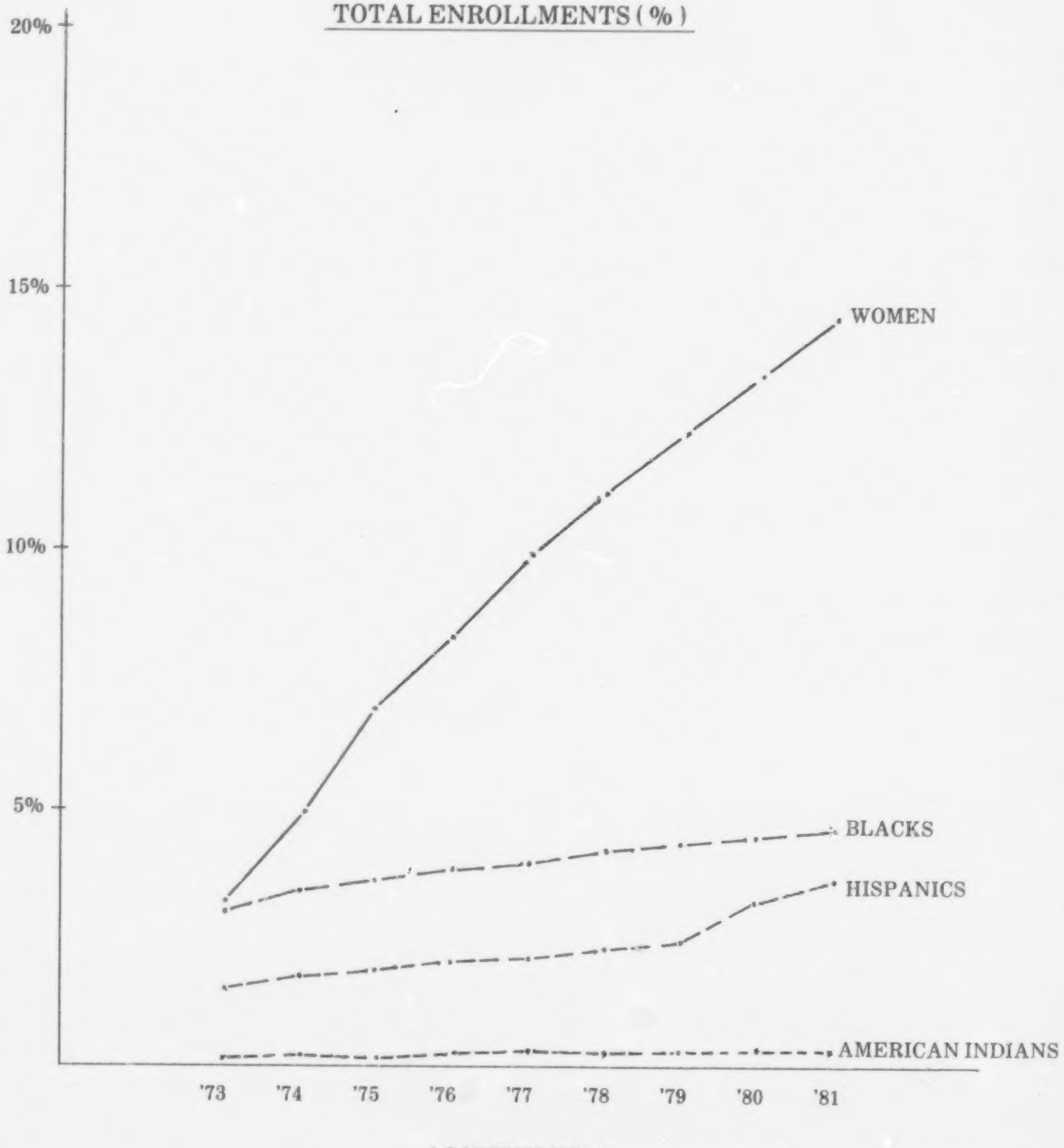
## *CHART 3*

## FIRST YEAR ENROLLMENTS ( % )



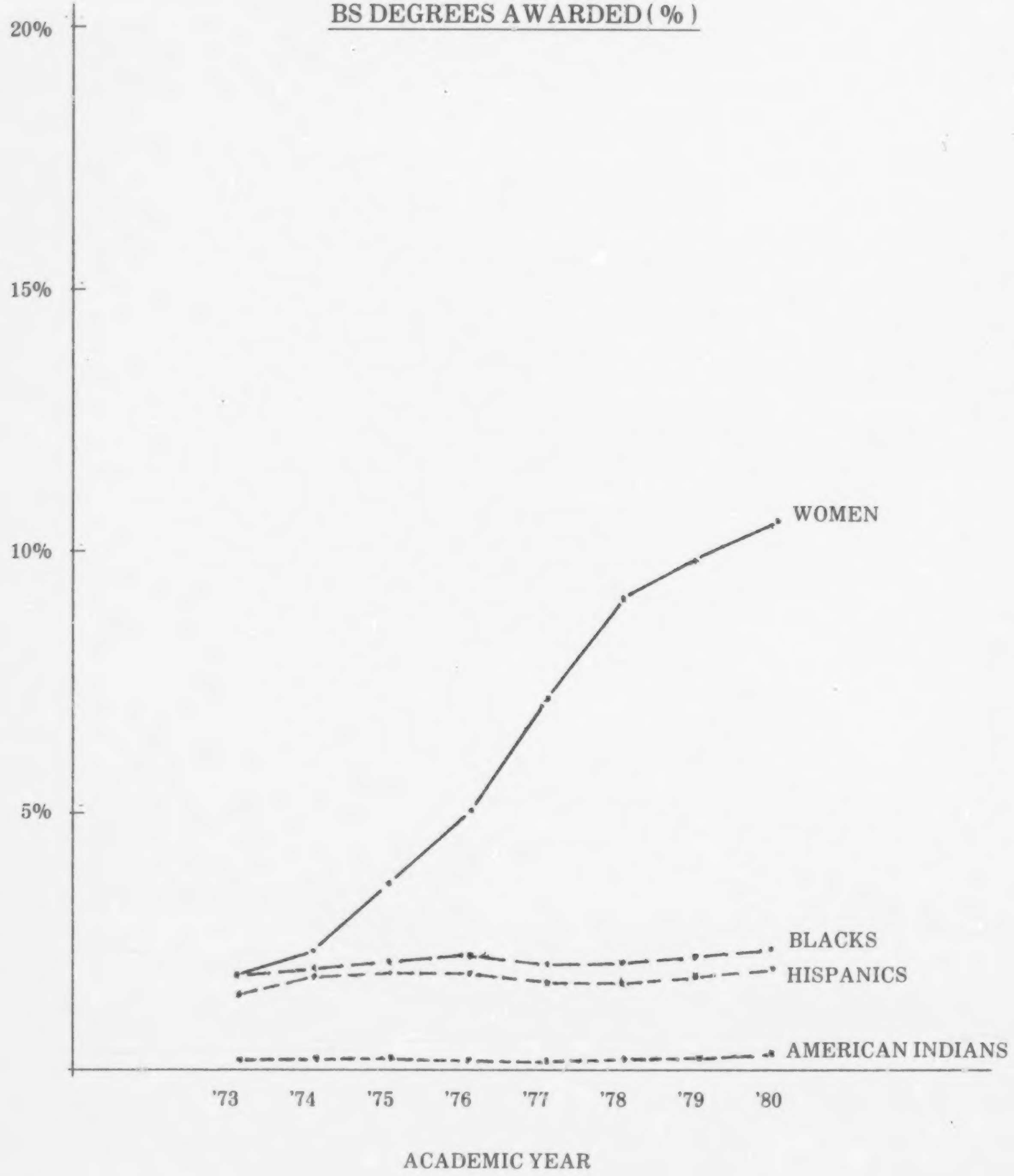
## *CHART 4*

## TOTAL ENROLLMENTS ( % )



## *CHART 5*

BS DEGREES AWARDED ( % )



# U.S. COAST GUARD ACADEMY

## New London, Connecticut 06320

The United States Coast Guard Academy has an enrollment of 900 students and is a military academy. All expenses paid for the students. Graduates receive a Bachelor of Science degree and are commissioned as officers in the United States Coast Guard.

## Description of Program(s)

**Recruitment.** Paid advertising in minority magazines; direct mail through PSAT, SAT and ME$^3$; preparatory school scholarships; MITE; involvement in the National Urban League, NAACP, LULAC, GI Forumm, etc.

**Academic Support.** Faculty and peer tutoring available to all students.

**Personal Counseling.** Two counseling psychologists and two chaplains available.

**Summer Job Placement.** Academy is year round program which includes summer cruises to foreign ports.

## Contact Person(s):

Capt. R.T. Getman
Director of Admissions
United States Coast Guard Academy
New London, Connecticut 06320
[203-444-8500]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 4 | – | – | – |
| BLACKS | 3 | 4 | 6 | 1 | – |
| HISPANICS | 10 | 3 | 8 | 6 | – |
| WOMEN | 61 | 32 | 27 | 13 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 4 | – | – |
| BLACKS | 12 | 2 | 3 | 4 | – |
| HISPANICS | 8 | 7 | 1 | 7 | – |
| WOMEN | 40 | 41 | 24 | 19 | – |

# UNIVERSITY OF CONNECTICUT
# SCHOOL OF ENGINEERING
## Storrs, Connecticut 06268

The University of Connecticut School of Engineering has an enrollment of approximately 2,000 students and is on the main campus of the University of Connecticut (enrollment nearly 20,000) at Storrs, Connecticut (a community of 10,700). The Engineering School offers fully accredited four-year programs leading to the B.S. degree in Chemical, Civil, Electrical and Mechanical Engineering and in Computer Science. A double major may include the field of Materials Engineering. A concentrated program in Minerals Engineering is also available.

### Description of Program(s)

**Recruitment.** University faculty visits to Connecticut high schools with considerable minority enrollment in order to meet with guidance counselors, administrators and math and science teachers (at inception of program); mailings to minority high school students with promising SAT scores; outreach to minority high school students via liaison minority practicing engineering recruited from industry. The University of Connecticut also has several minority recruiters who visit high schools.

**Academic Support.** A tutoring course coordinated with freshman math is required of students admitted with a deficiency. The tutor helps freshmen and sophomores, and with the program assistant, attempts to direct students who need other tutoring to University programs. During 1981-82, an upperclassman Chemistry tutor was available.

**Personal Counseling.** Students entering the School of Engineering through the Summer Program and the Committee for the Education of Minority Students (University of Connecticut offices for promoting minority enrollment) have special counseling services and are assigned to especially interested faculty advisors. The MEP program tutor and assistant do some personal counseling and refer students to appropriate university services.

**Summer Job Placement.** The MEP assistant helps students make up resumes, telephones Connecticut industries in the spring term for job openings, and sends resumes where there are openings.

### Contact Person(s):

Dr. Stephen L. Rice
Director, Minority Engineering Program
U-139 [203-486-2153]

Dr. H. Fred Simons
Dean of Minority Student Affairs
U-150
University of Connecticut
Storrs, Connecticut 06268
[203-486-2153]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 1 | – | 1 | – |
| BLACKS | 35 | 7 | 5 | 7 | – |
| HISPANICS | 9 | 1 | 4 | 3 | – |
| WOMEN | 98 | 66 | 48 | 65 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 2 | 1 | – | – |
| BLACKS | 12 | 15 | 4 | 6 | – |
| HISPANICS | 9 | 10 | 1 | 1 | – |
| WOMEN | 93 | 95 | 56 | 68 | – |

# UNIVERSITY OF NEW HAVEN
# SCHOOL OF ENGINEERING
## West Haven, Connecticut 06516

Since its founding in 1920, the University of New Haven has grown from a small college to a large, diverse university. It is a private, urban, co-educational institution of higher learning. It is situated on 45 acres in West Haven, Connecticut. Today, the student body is approximately 10,000 and the University operates seven teaching centers throughout the state.

### Description of Program(s)

**Recruitment.** N/A

**Academic Support.** N/A

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

### Contact Person(s):

Melba Lee-Hanna
University of New Haven
300 Orange Avenue
West Haven, Connecticut 06516
[203-934-6321, x364]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 6 | 12 | 11 | 6 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 9 | 4 | 16 | 13 | – |

# YALE UNIVERSITY
# COLLEGE OF ENGINEERING
## New Haven, Connecticut 06520

Yale University, a university college which also contains a group of professional schools and a first-rank graduate program, is located in New Haven, Connecticut, a city of approximately 132,000 people, 75 miles east of New York City. The undergraduate enrollment is 5,100.

## Description of Program(s)

**Recruitment.** The Minority Recruitment Program (MRP), a comprehensive program designed to attract qualified Asian-American, Black, Chicano, Native American and Puerto Rican applicants and to acquaint them with the educational opportunities at Yale, each year sponsors secondary school visits by Yale minority students. The MRP also works to inform the Yale Admissions Committee which must each year select a class of 1,300 from among more than 10,000 applicants, of the special circumstances and strengths which often have bearing on a minority student.

**Academic Support.** PROP (Pre-Registration Orientation Program) provides minority students with an opportunity to experience college life for two weeks in August during which time they take a few classes and familiarize themselves with the campus. Introductory courses in chemistry, physics, math and statistics are offered. In addition, English, history, economics and political science are offered for those leaning towards the liberal arts. To compensate for the money a student might have earned during the last two weeks of summer, $100 is provided to the students along with room and board.

Each freshman is assigned a freshman counselor. In addition, every freshman minority student is assigned a floating counselor, a minority upperclassman whose experiences and knowledge can be very useful to the student. Moreover, most minority student organizations set up study sessions and make tutors available.

**Personal Counseling.** The residential college Dean is probably the single most important source of counseling whether it be for academic or personal reasons. As the official academic head of a residential college, a dean often serves as a liaison between a student and his professors and a mediator between parent and student, or between roommates and can be helpful in providing career-related advice.

**Summer Job Placement.** N/A

## Contact Person(s):

Director of Minority Recruitment
Office of Undergraduate Admissions
1502 A Yale Station
Yale University
New Haven, Connecticut 06520
[203-436-1205]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | 5 | 2 | – |
| HISPANICS | – | – | 2 | 1 | – |
| WOMEN | – | – | 10 | 9 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | 5 | – |
| HISPANICS | – | – | – | 2 | – |
| WOMEN | – | – | 10 | 14 | – |

# BOSTON UNIVERSITY COLLEGE OF ENGINEERING

**Boston, Massachusetts 02215**

Private; 19,452 full-time students at the University; 1,508 full-time students at the College of Engineering; residential/urban campus; Boston, Massachusetts.

## Description of Program(s)

**Recruitment.** For undergraduates: participation in the College Board Minority Engineering Student Recruitment Program and the National Action Council for Minorities in Engineering Student Identification Program and Incentive Grant Program. For graduate students: participation in the Graduate and Professional Opportunities Program and the National Consortium for Graduate Degrees for Minorities in Engineering (two fellowship programs for minorities) and the Late Entry Accelerated Program (LEAP) for women.

**Academic Support.** In addition to individual academic advising with Faculty Advisors, we provide tutoring in Engineering, Math, Physics, Chemistry, and Biology by the faculty, teaching assistants, Tau Beta Pi, and the Minority Engineering Society.

**Personal Counseling.** Each student in the College of Engineering has a Faculty Advisor who provides academic advising. A great deal of personal counseling is done by the Deans of the College of Engineering and the Residential Life Staff in the residence halls. Boston University offers personal counseling services at the Martin Luther King Center.

**Summer Job Placement.** Summer jobs are obtained through faculty contacts, the Coordinator of Placement Services at the Martin Luther King Center, the Career Resource Librarian and independent efforts of individual students.

## Contact Person(s):

Nancy J. Jacobson (Undergraduates)
or
Maxine Milstein (Graduate Students)
Boston University
College of Engineering
110 Cummington Street
Boston, Massachusetts 02215
[617-353-2800]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 1 | 1 | – |
| BLACKS | 58 | 48 | 27 | 23 | – |
| HISPANICS | 25 | 18 | 18 | 10 | – |
| WOMEN | 114 | 92 | 62 | 61 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | 1 | – |
| BLACKS | 60 | 50 | 39 | 24 | – |
| HISPANICS | 23 | 21 | 22 | 17 | – |
| WOMEN | 105 | 112 | 89 | 52 | – |

# MASSACHUSETTS INSTITUTE OF TECHNOLOGY SCHOOL OF ENGINEERING

## Cambridge, Massachusetts 02139

MIT is located in Cambridge, Massachusetts. Cambridge is connected to Boston by a number of bridges, and students, therefore, have access to a large urban setting. The student body is composed of approximately 9,000 undergraduates/graduate students, with the number of each being roughly the same.

### Description of Program(s)

**Recruitment.** We provide different recruitment materials. We also seek maximum contact with the minority applicants and their parents.

**Academic Support.** Academic support programs which complement the teaching/learning process of minority students are provided. These programs include a tutorial program and a summer program.

**Personal Counseling.** Where necessary, personal counseling is provided in conjunction with other support areas such as the office of the Dean of Student Affairs.

**Summer Job Placement.** N/A

### Contact Person(s):

Dr. Clarence G. Williams
Office of Minority Education, Rm. 12-185
Massachusetts Institute of Technology
Cambridge, Massachusetts 02139
[617-253-5010]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 4 | 1 | 2 | – |
| BLACKS | – | 49 | 47 | 42 | – |
| HISPANICS | – | 25 | 21 | 14 | – |
| WOMEN | – | 176 | 136 | 138 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | — | 3 | 4 | 1 | — |
| BLACKS | – | 53 | 43 | 43 | – |
| HISPANICS | – | 22 | 23 | 17 | – |
| WOMEN | – | 151 | 175 | 136 | – |

# NORTHEASTERN UNIVERSITY
# COLLEGE OF ENGINEERING
## Boston, Massachusetts 02115

Northeastern is an urban university located in the Back Bay section of Boston. The main campus occupies approximately fifty acres and is in close proximity to Fenway Park, as well as such cultural landmarks as Symphony Hall, the Museum of Fine Arts, and the Boston Public Library. Founded in 1898, Northeastern is incorporated as a privately endowed nonsectarian institution famous for its cooperative plan of education.

## Description of Program(s)

**Recruitment.** Recruiting efforts for minority engineering students are determined by information received from the following sources: Northeastern's admissions office, the National Census Bureau population maps and CEEB (College Entrance Examination Board). Further resources include: college fairs, college day and nights sponsored by individual high schools and individual high school visitations.

**Academic Support.** The Academic Workshop Program provides reinforcement of course material, study skills, and answers to individual questions.

**Personal Counseling.** Counseling is an integral part of NUPRIME's support system. NUPRIME maintains an "open door" policy to facilitate access for students to discuss problems with our staff at any time. In addition, one group meeting is held and at least one individual appointment is made for students each quarter.

**Summer Job Placement.** N/A

## Contact Person(s)

David C. Blackman, Assistant Dean
College of Engineering, 400 Churchill
Northeastern University
360 Huntington Avenue
Boston, Massachusetts 02115
[617-437-2156]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 2 | 3 | 1 | – |
| BLACKS | 47 | 23 | 22 | 20 | 17 |
| HISPANICS | 10 | 7 | 5 | 5 | 4 |
| WOMEN | 138 | 94 | 98 | 74 | 73 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 2 | 3 | – |
| BLACKS | 54 | 15 | 17 | 18 | 18 |
| HISPANICS | 12 | 7 | 5 | 4 | 4 |
| WOMEN | 130 | 99 | 98 | 88 | 80 |

# UNIVERSITY OF LOWELL
# COLLEGE OF ENGINEERING
## Lowell, Massachusetts 01854

The University is situated in the historic textile manufacturing city of Lowell, MA on the Merrimack River. Lowell is the first city to be designated a National Historic Park. The University of Lowell, committed to excellence in teaching, research, and community service, is a modern, comprehensive university with over 400 full-time faculty members teaching more than 13,000 students in undergraduate, graduate, and continuing education programs. One of the largest sources in New England and U.S. of professionals educated in engineering and technological fields.

## Description of Program(s)

**Recruitment.** Primarily the responsibility of the Admissions Office. However, the College of Engineering and the Department of Special Academic Services are initiating a program for the Retention and Recruitment of Minority Students in Engineering scheduled to begin in the fall of 1982.

**Academic Support.** Special Academic Services Student Learning Center currently offers tutoring, foundations courses, individualized instruction, and study skills for eligible students in all majors and colleges. The Program for the Retention and Recruitment of Minority Students in Engineering will also provide supportive services to minority engineering students.

**Personal Counseling.** Special Academic Services provides individualized and group advisement, particularly in academic areas. The University Counseling Center provides varied counseling services for all University students. Faculty members serve as academic advisors for students in their college.

**Summer Job Placement.** Primarily the responsibility of the University Placement Office. Referrals are made by staff in the Department of Special Academic Services to companies who call directly to the SAS office for minority student applicants, and also by faculty members who are contacted directly.

## Contact Person(s):

William L. McMillan
Director of Special Academic Services
University of Lowell
One University Avenue
Lowell, Massachusetts 01854
[617-452-5000, ext. 2453]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 1 | – | – |
| BLACKS | 1 | 2 | 2 | 6 | – |
| HISPANICS | 2 | 7 | 3 | 2 | – |
| WOMEN | 88 | 72 | 47 | 60 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | 1 | – |
| BLACKS | 3 | 1 | 2 | 2 | – |
| HISPANICS | 2 | 2 | 7 | 3 | – |
| WOMEN | 85 | 88 | 72 | 47 | – |

# UNIVERSITY OF MASSACHUSETTS
# COLLEGE OF ENGINEERING
## Amherst, Massachusetts 01003

The University of Massachusetts in Amherst is located in a rural setting in western Massachusetts. There are approximately 18,000 undergraduates and 6,000 graduate students enrolled in all disciplines. The School of Engineering offers programs in Electrical and Computer Engineering, Industrial Engineering, Mechanical Engineering, Chemical Engineering and Civil Engineering.

## Description of Program(s)

**Recruitment.** Admissions Office visits and communicates with many high schools with large minority populations, as well as conducts "Career Days" and "Meet UMass" days in minority population centers. The Minority Engineering Program has a "high school visitation program" where students visit their high schools to speak with prospective minority engineering students. MEP also recruits minority students from its own summer Engineering Career Orientation Program for high school minority students.

**Academic Support.** The Minority Engineering Program has: a) tutorial program, b) academic workshop program, c) Minority Engineering Freshman Orientation (2-week) program, d) early warning system, and e) special problem-solving courses.

**Personal Counseling.** We counsel students in academic matters, job questions, personal problems, and financial matters.

**Summer Job Placement.** We communicate with prospective candidates for all summer job requests that are received.

## Contact Person(s):

Professor Ting-wei Tang
Minority Engineering Program
University of Massachusetts
127 Marston Hall
Amherst, Massachusetts 01003
[413-545-2030]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 19 | 15 | 8 | 9 | 3 |
| HISPANICS | 15 | 13 | 12 | 4 | 7 |
| WOMEN | 97 | 75 | 118 | 101 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 15 | 24 | 15 | 5 | 2 |
| HISPANICS | 12 | 12 | 8 | 12 | – |
| WOMEN | 80 | 104 | 98 | 125 | – |

# BROWN UNIVERSITY
# COLLEGE OF ENGINEERING
## Providence, Rhode Island 02912

Brown University, founded in 1794, is the third oldest college in New England and the seventh oldest in the Nation. It is a private, non-sectarian, coeducational institution with 5,200 undergraduates, 1,200 graduate students, and 250 students enrolled in the Medical Program. The University is located on College Hill in Providence, RI, one hour from Boston and Newport, three and one-half hours from New York. The forty-acre main campus is in a National Historic area.

## Description of Program(s)

**Recruitment.** N/A

**Academic Support.** For Blacks: emphasis on retention of those students admitted. Special recitation section conducted in parallel with freshman year engineering course.

**Personal Counseling.** For Blacks: assigned faculty advisor on standard basis and, in addition, have a Faculty Advisor for National Society for Black Engineers (also an active chapter in the Division). For Women: have active chapter of the Society of Women Engineers in the Division.

**Summer Job Placement.** Division supports compilation of booklet containing resumes of all members of the Society of Black Engineers for distribution to prospective employers, temporary or permanent.

## Contact Person(s):

Barrett Hazeltine
Professor of Engineering
Division of Engineering
Brown University
Providence, Rhode Island 02912
[401-863-2673]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | – | – | – |
| BLACKS | 19 | 13 | 8 | 6 | – |
| HISPANICS | 5 | – | 3 | 3 | – |
| WOMEN | 37 | 32 | 34 | 40 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | – | – |
| BLACKS | 12 | 19 | 7 | 6 | – |
| HISPANICS | 3 | 5 | – | 3 | – |
| WOMEN | – | – | – | – | – |

# STEVENS INSTITUTE OF TECHNOLOGY
# SCHOOL OF ENGINEERING
## Hoboken, New Jersey 07030

Privately endowed college, founded in 1870, Center of Study and Research in Engineering, Science and Management; total enrollment 3,000 includes approximately 1,600 undergraduates; 55 acre campus overlooks mid-town Manhattan and is located on a high bank of the Hudson River in Hoboken, New Jersey.

### Description of Program(s)

**Recruitment.** Agressive recruitment techniques utilized in attracting minorities and women to Stevens, i.e., on-campus seminars for high school personnel, pre-college programs, mass mailings targeted to these groups, special programs conducted within targeted school districts.

**Academic Support.** Transition programs are conducted for high school seniors prior to their entrance to Stevens; six-week summer "Bridge" program; mandatory tutoring during freshmen and sophomore years at Stevens; pre-final review sessions conducted by Stevens faculty each semester.

**Personal Counseling.** Full-time professional counselor is made available to all participants in the undergraduate support program for minorities. All students are assigned a faculty advisor who works closely with them.

**Summer Job Placement.** Minority students fully participate in the SEEP Program conducted by NACME. The SEEP liaison works diligently to provide a network of summer job opportunities each year.

### Contact Person(s):

Deborah Minor Sawyer
Stevens Institute of Technology
Castle Point Station
Hoboken, New Jersey 07030
[201-420-5204]

**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 18 | 18 | 8 | 7 | 4 |
| HISPANICS | 31 | 34 | 21 | 22 | 3 |
| WOMEN | 69 | 51 | 40 | 41 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 17 | 16 | 14 | 6 | 2 |
| HISPANICS | 33 | 31 | 32 | 20 | – |
| WOMEN | 98 | 60 | 45 | 39 | – |

# CITY COLLEGE OF NEW YORK SCHOOL OF ENGINEERING

## New York, New York 10031

The City College of New York is part of City University System, located in upper Manhattan; Size of college: 12,000 students. Size of the Engineering School: 3,500.

## Description of Program(s)

**Recruitment.** National Action Council for Minorities in Engineering (NACME) incentive grants for Blacks, Hispanics and American Indians.

**Academic Support.** Student Chapters of the National Society of Black Engineers and Society of Women Engineers.

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

## Contact Person(s):

Edward S. Reitz
City College of New York
104 Steinman Hall
New York City, New York 10031
[212-690-4283]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 480 | 213 | 204 | 130 | – |
| HISPANICS | 263 | 109 | 95 | 52 | – |
| WOMEN | 180 | 68 | 70 | 52 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 352 | 324 | 206 | 218 | – |
| HISPANICS | 255 | 119 | 91 | 70 | – |
| WOMEN | 129 | 115 | 71 | 81 | – |

# CLARKSON COLLEGE
## Potsdam, New York 13676

Independent; non-profit; engineering, science and management curricula; 2,797 men and 788 women; dormitories and married student facilities available. Tuition and fees: $4,600/semester for resident. Located in rural environment - town of 10,000 inhabitants.

### Description of Program(s)

**Recruitment.** Tutoring, Women's Program Coordinator, Native American Program for spanning grammar school-high school-college. Student chapters of Societies for Women Engineers and American Indian Science and Engineering Society.

**Academic Support.** Tutoring, special sessions in math and sciences, summer programs.

**Personal Counseling.** Fully staffed Student Development Center - includes academic as well as personal counseling.

**Summer Job Placement.** Fully staffed job placement office. Covers full-time as well as summer employment. Special sessions provided concerning job placement.

### Contact Person(s):

Dean Elizabeth Fessenden
Clarkson College
Potsdam, New York 13676
[315-268-7710]

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**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 2 | 2 | – |
| BLACKS | – | – | 1 | – | – |
| HISPANICS | 1 | 1 | 2 | 1 | – |
| WOMEN | 88 | 99 | 78 | 84 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 1 | 1 | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | 1 | 1 | 1 | 1 | – |
| WOMEN | 83 | 95 | 78 | 81 | – |

# COLUMBIA UNIVERSITY
# SCHOOL OF ENGINEERING AND APPLIED SCIENCE
## New York, New York 10027

The School of Engineering and Applied Science forms part of the main University campus on Morningside Heights, at West 116th Street and Broadway. It consists of a thirteen-story laboratory and classroom building which is situated on Amsterdam Avenue and 120th Street. The School has both a graduate and undergraduate component and offers academic studies in twelve engineering disciplines. There are approximately 700 graduate and 1,000 undergraduate students enrolled in the School. Nine percent of the undergraduate student population is Black and Hispanic.

### Description of Program(s)

**Recruitment.** The professional Admissions and HEOP staff engage in extensive planning to recruit women and ethnic and racial minorities. Recruiting activities include visits to high schools in the metropolitan area and adjacent suburbs, visits to college fairs, search mailings for minorities, and active involvement of student organizations such as the National Society of Black Engineers, Chicano Caucus, the Society of Women Engineers and Alianza Latino Americana.

**Academic Support.** Academic supports include freshman tutoring in mathematics, physics and chemistry, midterm grade screening, program adjustments and individual and/or group sessions to discuss academic related concerns. The student organizations - NSBE and SWE, provide students with additional academic supports by forming study groups and maintaining an updated homework file.

**Personal Counseling.** Individual (and group) counseling is available to students and readily accessible whenever the need arises for such meetings. A lot of reaching out is done throughout the academic year by way of the Student Affairs Office and the student organizations - NSBE and SWE.

**Summer Job Placement.** Summer jobs and permanent employment are made available to students through the Career and Placement Office on campus, the Engineering Alumni Office and through student job fairs, resume book sales and special visits from various business representatives arranged through NSBE and SWE.

### Contact Person(s):

Edna Rivera
Student Affairs Officer
529 Mudd Building
Columbia University
New York, New York 10027
[212-280-2981 or 280-2982

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**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 8 | 20 | 12 | 9 | 1 |
| HISPANICS | 12 | 27 | 17 | 10 | – |
| WOMEN | 52 | 64 | 71 | 36 | 5 |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 2 | 11 | 21 | 8 | 2 |
| HISPANICS | 17 | 17 | 23 | 14 | – |
| WOMEN | 56 | 54 | 76 | 64 | 4 |

# THE COOPER UNION
# SCHOOL OF ENGINEERING
## New York, New York 10003

Located in New York City. Enrollment is 960 coed students. Private (independent) institution. No religious affiliation.

### Description of Program(s)

**Recruitment.** Cooper Union has an admissions counselor whose primary function is to recruit minority students. A math and science program in inner city high schools is designed to influence students to study engineering.

**Academic Support.** No special courses. Tutoring is available.

**Personal Counseling.** Available from Dean Gore, Dean of Students.

**Summer Job Placement.** No special program.

### Contact Person(s):

Herbert Liebeskind
41 Cooper Square
The Cooper Union
New York, New York 10003
[212-254-2629]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | 1 | 1 | – |
| HISPANICS | 4 | 2 | 2 | 1 | – |
| WOMEN | 18 | 21 | 12 | 14 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 5 | – | – | 1 | – |
| HISPANICS | 2 | 3 | 2 | 2 | – |
| WOMEN | 22 | 20 | 21 | 11 | – |

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# STATE UNIVERSITY OF NEW YORK MARITIME COLLEGE SCHOOL OF ENGINEERING

### Bronx, New York 10465

State University of New York Maritime College is a small four-year college, organized as an academy, located at Fort Schuyler on suburban Throngs Neck of the Bronx. While earning the BS or BE degree, cadets also prepare for licensure as officers for the Merchant Marine. Engineering curriculums offered are electrical, marine, nuclear, ocean and naval architecture. Navy ROTC is also available.

## Description of Program(s)

**Recruitment.** ME³, NSSFNS Programs, participation in college information programs in areas with high minority populations, special publications directed to minority students and to women, participation in career fairs when invited.

**Academic Support.** Special support services (other than for all cadets), are available to participants of the Educational Opportunity Program for which some minority students are eligible (most are not in EOP). Tutors, extra academic counseling are also available.

**Personal Counseling.** Same for all cadets. College counselor is available. Officers from the Commandant of Cadets (Dean of Students) Office are always available for personal counseling.

**Summer Job Placement.** N/A. All cadets participate in the annual Summer Sea Term Training cruise aboard the college ship, Empire State.

## Contact Person(s):

R. Thomas Cerny
State University of New York Maritime College
Fort Schuyler, Bronx, New York 10465
[212-892-3000]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 6 | 1 | – | 1 | – |
| HISPANICS | 2 | 3 | 3 | 2 | – |
| WOMEN | 12 | 9 | 4 | 7 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 5 | 6 | 1 | – | – |
| HISPANICS | 3 | 2 | 3 | 3 | – |
| WOMEN | 5 | 12 | 9 | 4 | – |

# STATE UNIVERSITY OF NEW YORK AT BUFFALO COLLEGE OF ENGINEERING

## Buffalo, New York 14260

Located in suburb of Buffalo. Has about 27,500 students. About 2,400 are undergraduate day school engineering students and about 400 are graduate students. School was private until 1962. It is about 140 years old. Curricula available in almost all fields but agriculture. Degrees given through the doctoral degree.

### Description of Program(s)

**Recruitment.** We have Talent Search and Upward Bound programs working with high school students who are Blacks, Hispanics, American Indians from 10th grade on. A Women's Studies Program at both undergraduate and graduate levels is available at the University. There is also a special program for underprivileged and educationally disadvantaged students (EOP).

**Academic Support.** Tutoring and counseling of the high school minority students during the year and academic courses and skill development courses in the summer. College courses in College Writing and Contemporary Social Problems are taught to them plus a summer minority program in engineering.

**Personal Counseling.** Personal counseling is available to students in the minorities program from 9th grade on up.

**Summer Job Placement.** N/A

### Contact Person(s):

Dr. Robert Palmer, Director of EOP and Supervisor of Talent Search and Upward Bound
State University of New York at Buffalo
562 Capen Hall
Buffalo, New York 14260
[716-636-2992]

and

Linda Perkins, Upward Bound
State University of New York at Buffalo
311 Townsend Hall
Buffalo, New York 14260
[716-831-3502]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 2 | 1 | – |
| BLACKS | 2 | 1 | 2 | 4 | – |
| HISPANICS | 1 | 1 | 2 | – | – |
| WOMEN | 58 | 100 | 67 | 73 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | - | – | 2 | 1 |
| BLACKS | 18 | 1 | 1 | 1 | – |
| HISPANICS | 4 | 1 | 1 | 1 | – |
| WOMEN | 88 | 45 | 96 | 66 | – |

# STATE UNIVERSITY OF NEW YORK
# COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY
## Syracuse, New York 13210

Located adjacent to Syracuse University and cooperates with them in the use of certain facilities. It is in an urban, residential setting. ESF is a professional college with a student population of about 1,500.

## Description of Program(s)

**Recruitment.** No Special Programs.

**Academic Support.** Each minority student is offered academic assistance and support on an individual basis.

**Personal Counseling.** Each minority student is offered personal counseling on an individual basis.

**Summer Job Placement.** Offered on an individual basis.

## Contact Person(s):

Robert L. Friedman
Director of Admissions
State University of New York
College of Environmental Science and Forestry
Syracuse Campus
Syracuse, New York 13210

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | 1 | – | – |
| HISPANICS | – | – | – | 2 | – |
| WOMEN | – | – | 7 | 11 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | 1 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | – | – | – | 7 | – |

# STATE UNIVERSITY OF NEW YORK AT STONY BROOK COLLEGE OF ENGINEERING

### Stony Brook, New York 11794

State University of New York at Stony Brook is located on the North Shore of Long Island in a beautiful rural area, yet only 1½ hours from the cosmopolitan offerings of New York City (by train or car). About 12,000 undergraduate students with 2,000 in College of Engineering and Applied Sciences.

## Description of Program(s)

**Recruitment.** AIM Program recruits and supports minority students.

**Academic Support.** AIM Office provides special first year tutoring program; some students may require remedial courses which the University offers. CEAS offers tutoring for all students through Tau Beta Pi.

**Personal Counseling.** Through AIM and regular University services.

**Summer Job Placement.** Limited - no fixed program.

## Contact Person(s):

AIM Director
State University of New York at Stony Brook
Stony Brook, New York 11794
[516-246-6750]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 1 | – | – | – |
| BLACKS | 5 | 21 | 9 | 9 | – |
| HISPANICS | 3 | 15 | 8 | 6 | – |
| WOMEN | 18 | 49 | 32 | 33 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 1 | – | – |
| BLACKS | 5 | 5 | 21 | 9 | – |
| HISPANICS | 3 | 3 | 15 | 8 | – |
| WOMEN | 18 | 18 | 49 | 32 | – |

# SYRACUSE UNIVERSITY COLLEGE OF ENGINEERING

## Syracuse, New York 13210

The College of Engineering at Syracuse University is located in Central New York State. The College currently enrolls over 1,250 undergraduate students in ten undergraduate programs: Aerospace Engineering, Bioengineering, Chemical Engineering and Materials Science, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering and Operations Research, and Mechanical Engineering. The College Faculty numbers approximately 80 and engages actively in research. Graduate student enrollment in the College of Engineering currently stands at 220 full and part-time students. The College also has an extensive off-campus graduate education program which attracts approximately 1,000 students per year.

## Description of Program(s)

**Recruitment.** Primary thrust is aimed at community colleges with engineering science curriculums offering corporate scholarships and NACME funds to graduating applicants. Secondary target is to math, science high school qualified students from the northeast metro areas.

**Academic Support.** Tutoring offered through special department (Office of Minority Affairs Division). Other offices of Student Services aid where appropriate.

**Personal Counseling.** Coordinator (full-time) assists in student requests during crisis and non-crisis intervention modes. Counsels in all areas: RE: Retention to graduation plus resume, interview, decision counseling and graduate school advocacy.

**Summer Job Placement.** NACME "S.E.E.P." campus coordinator - liaison to corporate summer positions linking student/employer opportunities. Corporate visitation and seminar coordination contact and implementation.

## Contact Person(s):

Mr. Reynolds B. Winslow, Coordinator
Minority Engineering Program
273 Link Hall
Syracuse University
Syracuse, New York 13210
[315-423-4419]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 16 | 17 | 2 | 1 | – |
| HISPANICS | 4 | 6 | 5 | 6 | – |
| WOMEN | 56 | 53 | 26 | 25 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 16 | 15 | 3 | 2 | – |
| HISPANICS | 7 | 3 | 4 | 6 | – |
| WOMEN | 47 | 52 | 43 | 24 | – |

# U.S. MERCHANT MARINE ACADEMY
## Kings Point, New York 11024

Federal academy. Approximately 1,100 students. Four years including one year of training at sea or various merchant vessels.

### Description of Program(s)

**Recruitment.** Direct mail effort via College Board and ME$^3$, NSSFNS College Fairs and contact with various minority organizations.

**Academic Support.** Student tutoring program of minor effectiveness.

**Personal Counseling.** Accomplished through the Director of Candidate Recruitment, Chaplain's Office and other Academy officials.

**Summer Job Placement.** N/A

### Contact Person(s):

Lennis Fludd, Director of Candidate Recruitment
U.S. Merchant Marine Academy
Kings Point, New York 11024
[516-482-8200, ext. 393]

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**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 5 | 4 | 6 | 4 | – |
| HISPANICS | 1 | 3 | 2 | 1 | – |
| WOMEN | 15 | 12 | 7 | 4 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | – | 2 | – |
| BLACKS | 8 | 8 | 4 | 9 | – |
| HISPANICS | 12 | 11 | 4 | 5 | – |
| ASIANS | 8 | 2 | 5 | 7 | – |

# U.S. MILITARY ACADEMY
# WEST POINT
# COLLEGE OF ENGINEERING
### West Point, New York 10996

Federally funded, fully accredited, four-year college offering a Bachelor of Science degree and a commission as a Second Lieutenant in the Regular Army to all those who graduate. Students (cadets) receive a full scholarship (room, board, tuition, medical and dental care) plus a salary for books, uniforms, and incidentals. Graduates must serve five years in the Regular Army on active duty immediately upon graduation.

## Description of Program(s)

**Recruitment.** The Educational Testing Service and the American College Testing Program identify and provide listings of students who possess the academic potential for admission to West Point (ETS and ACT Search Programs)

Cadets also participate in a four week summer program in conjunction with the National Urban League. The program purpose is twofold: contact academically promising students, assist the Urban League in youth programs. The program is active in nine cities (Cadet Summer Enrichment Program) Baltimore, Dallas, New York, Atlanta, Philadelphia, Houston, Los Angeles, Washington, D.C., and Chicago.

Seven Lieutenants augment the EAO staff for 10 months (Project Outreach). They identify, contact, and follow-up on contacts with potentially admissible candidates. They communicate to 7th and 8th grade students the benefits of a post secondary education for the academically prepared. This program is designed to expand the eventual applicant pool (Project Outreach long-term mission). These Lieutenants also encourage a maximum number of minority students to seek academic improvement through attendance at USMA Prep School.

Applicant Followup: Members of the staff and faculty participate in a visitation program with highly qualified candidates. This program is designed to add a personal touch to and clarify the admissions process (Staff and Faculty Visitation Program).

Applicants who appear admissible receive follow-up contact in the form of letters, telephone contact, and personal visits by members of the Equal Admissions Staff and Outreach Lieutenants.

**Academic Support.** The following support is available for all cadets - additional instructions as needed. Study skill/time management assistance by Counseling Center.

**Personal Counseling.** Cadets are counseled by the company tactical officer or the cadet counseling center as needed.

**Summer Job Placement.** Not Applicable.

## Contact Person(s):

Major Mack Brooks, Admissions
United States Military Academy at West Point
West Point, New York 10996
[914-938-4216]

# UNIVERSITY OF ROCHESTER COLLEGE OF ENGINEERING

## Rochester, New York 14627

The University of Rochester is located in a suburban setting about two miles south of downtown Rochester and is an independent, coeducational institution. It enrolls about 4,300 full-time undergraduates and 2,000 graduate students; it has 1,000 full-time faculty members. The College of Engineering and Applied Science is one of the eight colleges and schools in the University. It enrolls about ten percent of the University's graduate students and over one-quarter of the undergraduate students (including those lowerclassmen planning engineering concentrations but not yet formally admitted to the College). The College of Engineering and Applied Science offers programs leading to the following degrees: Chemical Engineering, BS, MS, Ph.D.; Electrical Engineering, BS, MS, Ph.D.; Engineering and Applied Science (an interdepartmental program), BS; Geomechanics, BS; Mechanical Engineering, BS; Mechanical and Aerospace Sciences, MS, Ph.D.; Materials Science, MS, Ph.D.; and Optics, BS, MS, Ph.D.

### Description of Program(s)

**Recruitment.** One senior admissions counselor is responsible for recruitment of minority students, but all admissions counselors, along with other faculty and staff who recruit for the University, are involved in answering inquiries in interviewing on campus and in major cities like New York, Boston, and Philadelphia. A new publication, designed to address the concerns of minority students, both undergraduate and graduate, is due to be released in September, 1982.

**Academic Support.** The following offices, groups and programs offer academic support to minority students as well as other students: Office of Academic Advising (faculty advising), College of Engineering and Applied Science Faculty-Advising System, Tutoring (both paid tutors appointed by the University and free tutors provided by the Student Tutorial Society and Tau Beta Pi are available), Study Skills Center, Learning Resource Center, and Summer Early Connection Program (pre-college program).

**Personal Counseling.** Counseling and Psychological Services, University Health Services, Peer Counseling Program for Minority Students and informal personal counseling is available to all students.

**Summer Job Placement.** Students may call upon the staff of the Career Services and Placement Center for assistance in finding summer employment. The College of Engineering and Applied Science has for the last three years, assisted in the placement of minority engineering students in engineering-related work in local industry. The program began as one component of an overall plan to improve the retention of minority engineering students. The plan as a whole was supported by a PREFACE grant from the Department of Energy in 1979-80.

### Contact Person(s):

Mary Felder
Senior Admissions Counselor
Admissions and Student Aid

Suzanne O'Brien
Assistant Dean, College of Arts and Science
and Director of Academic Advising

Gail McDonald
Assistant to the Dean, College of Engineering
and Applied Science

Frederick Jefferson
Director, Special Student Services

Marion Walker
Director, Minority Student Affairs

University of Rochester
College of Engineering and Applied Science
Rochester, New York 14627
[716-275-4155]

*Continued on next page*

## FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 12 | 3 | 6 | 3 | – |
| HISPANICS | 4 | 1 | 1 | 5 | – |
| WOMEN | 77 | 53 | 45 | 33 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 10 | 6 | 3 | 4 | – |
| HISPANICS | 3 | 3 | 1 | 1 | – |
| WOMEN | 69 | 68 | 41 | 40 | 4 |

# DREXEL UNIVERSITY
# COLLEGE OF ENGINEERING
## Philadelphia, Pennsylvania 19104

The combined enrollment of Drexel's seven educational units is in excess of 11,000. Drexel University is located in the University City area of West Philadelphia. The University is within a few minutes of Center City, Philadelphia. Its historical past, culturally-rich present, world-famous museums, the Academy of Music, theatres, universities and colleges offer a dynamic environment for the student's college years.

## Description of Program(s)

**Recruitment.** The Office of Admissions is responsible for the recruitment of all Drexel students. Recruitment is done via high school visits, college fairs, NSSFNS Conferences, etc. The Special Programs Department works very closely with the admissions staff making a special effort to admit minorities and women.

**Academic Support.** Tutorials, a vital element of the Academic Advisement Operation, are responsible for helping students to successfully complete their degree requirements. This help is provided through study skills and course content assistance. The tutorial process creates an active learning environment. In this environment, students can take the lead and control the pace in which they cover subject material. Since students have full opportunity to verbalize their understanding of the subject material, specific weakness may be considered. In this manner, study habits and skills can be diagnosed and addressed. Tutorials are approached through a number of activities: one-to-one tutorials, group tutorials, peer-study groups, individual student faculty sessions, faculty led review sessions and auto-tutorial assistance. Drexel's Special Programs major tutorial thrust is one-to-one tutoring. Group tutoring is also offered, and for some students this is the preferred optimal learning strategy. Rather than provide special classes, Drexel assists its Special Program Students with tutorial, academic and personal advisement in addition to services offered to all Drexel students.

**Personal Counseling.** The counseling component provides professional and peer counseling in three basic areas: academic, personal and career counseling. The academic problems experienced in the Freshman year, which is generally the most difficult year, are compounded for the student who lacks adequate educational background and is culturally or economically disadvantaged. Therefore, the counseling component concentrates its efforts on the Freshman student, while academic preparation and continuing support services are also extended to the upper classmen. Professional staff members assist students in becoming action oriented and responsibility oriented, through individual and group counseling and workshops. In addition, peer counseling is done outside of the office in surroundings familiar to the student in order to lend an informal personal approach to counseling. The peer counselor plays an important role in helping students to adjust to their new environment and in the development of appropriate academic and social skills. Counseling is a continuous, sequential and educational process. Hence, it is an integral part of education and not a mere peripheral adjunct. Therefore, the counseling component in its effort to achieve such an intergration has as its focus, career and personal development.

**Summer Job Placement.** Drexel University operates a cooperative education program. Depending on a student's co-op cycle, they are employed in an area related to their academic studies, which supercedes the concept of summer job placement.

## Contact Person(s):

Denauvo M. Robinson
Drexel University
32nd and Chestnut Streets
Philadelphia, Pennsylvania 19104
[215-895-2523]

*Continued on next page*

## FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | 1 | – |
| BLACKS | 42 | 36 | 38 | 21 | 15 |
| HISPANICS | 9 | 14 | 4 | 2 | 3 |
| WOMEN | 92 | 97 | 59 | 35 | 41 |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 1 | 1 | – | – |
| BLACKS | 48 | 38 | 20 | 38 | 20 |
| HISPANICS | 8 | 12 | 8 | 3 | 3 |
| WOMEN | 86 | 100 | 60 | 50 | 47 |

# GENEVA COLLEGE
# SCHOOL OF ENGINEERING
## Beaver Falls, Pennsylvania 15010

Geneva College, located in Beaver Falls, Pennsylvania, a town of nearly 16,000 approximately 30 miles northwest of Pittsburgh, has an enrollment of 1,200 students and a small engineering class size.

### Description of Program(s):

**Recruitment.** No Special Program.

**Academic Support.** No Special Program.

**Personal Counseling.** No Special Program.

**Summer Job Placement.** No Special Program.

### Contact Person(s):

Dr. Richard H. Gordon
Geneva College
Beaver Falls, Pennsylvania 15010
[412-846-5100]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 6 | 9 | 4 | 3 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 7 | 5 | 8 | 3 | – |

# PHILADELPHIA COLLEGE OF TEXTILES AND SCIENCE
## Philadelphia, Pennsylvania 19144

The size of the College has grown from forty-seven acres to a seventy-four acre campus following the recent acquisition of Ravenhill Academy in 1980. Presently, 1,635 students are enrolled in the Day College and 1,100 students are enrolled in the Division of Evening and Continuing Education. The College is an independent, fully-accredited, co-educational institution which places a special emphasis upon career education in all its available majors. Each program combines intensive study in a career-oriented major with a well-rounded background in Humanities and Social Sciences that will enhance the professional development of the student. It is composed of three schools: the School of Business Administration, the School of Arts and Sciences and the School of Textiles. Concentrations are possible in eighteen career areas, including an Associate's Degree Program in Interior Design, a Master of Business Administration, and a new Computer Science curriculum. The College Placement Office successfully places ninety percent of all graduates.

### Description of Program(s)

**Recruitment.** Our Admission Department utilizes the ACT 101 guidelines. They also are in contact with the following organizations: AFNA, NSSFS, ASPIRA. In reference to the women groups, new techniques are being utilized such as a view book, special bulletin for adults and financial aid; career change guidance and special advising and counseling.

**Academic Support.** The college has an all-encompassing Tutorial Program with two coordinators and 80 tutors. Counseling is provided on request. Advising is available; special reading, writing, and mathematics courses are also available at no cost to the student. Many seminars and workshops are open to students. Testing of all students is mandatory.

**Personal Counseling.** The Director is a licensed clinical psychologist who is available for students with moderate to severe problems. Two counselors are also available.

**Summer Job Placement.** The Placement Office puts out a Job Opportunities Bulletin each week that has a section for summer employment.

### Contact Person(s):

James I. Stickler, Ph.D.
Philadelphia College of Textiles and Sciences
4201 Henry Avenue
Philadelphia, Pennsylvania 19144
[215-951-2730]

**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | 2 | – | – |
| HISPANICS | 1 | – | – | – | – |
| WOMEN | 5 | 11 | 8 | 9 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | 2 | – |
| HISPANICS | 1 | 1 | – | – | – |
| WOMEN | 7 | 6 | 12 | 9 | – |

# SWARTHMORE COLLEGE
# SCHOOL OF ENGINEERING
### Swarthmore, Pennsylvania 19081

Swarthmore College, a small (enrollment 1,300), selective, non-sectarian, coeducational liberal arts college with engineering, is located in Delaware County, a suburb of Philadelphia. Founded by members of the Religious Society of Friends in 1864.

## Description of Program(s)

The professional practice of engineering requires skill and resourcefulness in applying scientific knowledge and mathematical methods to the solution of technical problems of ever-growing complexity. In addition, the role of engineering in our society demands that the engineer recognize and take into account the economic and social factors that bear upon all important technical problems. The successful engineer must, therefore, possess a thorough understanding of social and economic forces, and have a deep appreciation of the cultural and humanistic traditions of our society. Our program supports these needs by offering the student the opportunity to acquire a broad technical and liberal education. The structure of the Department's curriculum permits engineering majors to take almost forty percent of their course work at the College in the humanities and social sciences. With careful planning it is possible for a student to acquire a double major with two degrees, the Bachelor of Science in Engineering and the Bachelor of Arts in a second academic area in a four-year course of study.

The Department's physical facilities include a wide range of laboratories for general instruction and individual student projects in the areas of electronics, system control, communication, instrumentation, strength of materials, solid and structural mechanics, fluid mechanics, thermodynamics, soil mechanics, and environmental diagnostics. Supporting these laboratories with on-line data acquisition and graphical display is the Department's computer laboratory which is equipped with two PDP systems as well as with smaller digital and analog computers. Excellent shop facilities for both metal and woodworking are available for student use.

The overall plan leading to the degree of Bachelor of Science with a major in Engineering is accredited by the Accreditation Board for Engineering and Technology.

**Recruitment.** Special recruitment efforts exist to pursue the goal of having at least 10% Black American students in each entering class.

**Academic Support.** A special five-week prefreshman summer program, primarily but not exclusively for minority students, is held jointly with Haverford and Bryn Mawr Colleges. It is not offered for credit. The summer curriculum includes assessment tests and course work in mathematics, the natural sciences, the social sciences, and English composition. During the academic year, a pre-calculus math course and a writing workshop are offered to students not fully prepared for the academic program at Swarthmore; group tutorials are offered in the sciences and individual tutorials are available in all other courses.

**Personal Counseling.** Special faculty advisors help students plan their academic programs and monitor academic progress, as do the Deans. Personal counseling is available to all students at the College's Psychological Services Center and, more informally, at the Black Cultural Center.

**Summer Job Placement.** The Career Planning and Placement Office sponsors a week-long Extern Program to help underclass students learn about career areas, and works with individual students to provide assistance in finding summer employment. A small minority Internship Program overseen by the Committee on Academic and Cultural Support places selected students in summer internship positions.

## Contact Person(s):

Janet Smith Dickerson, Dean of the College
Swarthmore College
Swarthmore, Pennsylvania 19081
[215-447-7367]

*Continued on next page*

## FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 3 | 1 | 1 | 1 | – |
| HISPANICS | – | 1 | – | – | – |
| WOMEN | 8 | 9 | 6 | 3 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 2 | 3 | 1 | 1 | – |
| HISPANICS | – | – | 1 | – | – |
| WOMEN | 9 | 7 | 5 | 8 | – |

# UNIVERSITY OF PENNSYLVA[illegible]IA
# SCHOOL OF ENGINEERI[illegible]
## Philadelphia, Pennsylvania 19104

Located in the Nation's fourth largest city. About 9,000 undergraduate students, 9,000 graduate students (full-time) enrolled in 13 diverse Schools.

## Description of Program(s)

**Recruitment.** Admissions Office conducts intensive, personal recruiting operation with direct contact of potential students in selective regions across the Nation.

**Academic Support.** Director of Minority Program reports directly to Dean, has an adequate budget and conducts retention program beginning the summer prior freshman year and continuing to graduation. Tutoring, counseling, cultural interaction, special courses, role-modeling from outside are all applied.

**Personal Counseling.** Personal counseling is coordinated by the Director of Minority Programs using the many services of the University.

**Summer Job Placement.** There is a special placement program for summer jobs.

## Contact Person(s):

Miss Cora M. Ingrum
School of Engineering and Applied Science
University of Pennsylvania
Philadelphia, Pennsylvania 19104
[215-243-7084]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 22 | 21 | 17 | 18 | – |
| HISPANICS | 3 | 11 | 7 | 4 | – |
| WOMEN | 58 | 64 | 63 | 53 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 32 | 23 | 22 | 18 | – |
| HISPANICS | 7 | 3 | 10 | 7 | – |
| WOMEN | 69 | 58 | 64 | 63 | – |

# UNIVERSITY OF PITTSBURGH SCHOOL OF ENGINEERING

## Pittsburgh, Pennsylvania 15261

The University of Pittsburgh is the largest and most diverse academic institution in Western Pennsylvania. The School of Engineering has departments in Chemical, Civil, Electrical, Industrial, Mechanical, Metallurgical and Materials Engineering, as well as special programs covering Energy, Petroleum, Environmental, Bio-Medical, Aerospace, and Mining Engineering.

## Description of Program(s)

**Recruitment.** Personnel from the PEI-P staff work closely with the University Office of Admissions and the Director of Recruiting, School of Engineering, to channel more minority and other disadvantaged students into Engineering. Arrangements are made which will allow prospective Engineering students to visit the School of Engineering and become familiar with the faculty, staff, students, and facilities.

**Academic Support.** PEI-P holds a non-credit six-week summer program, prior to the start of the Freshman year, the purpose of which is to bridge the gap between high school and the School of Engineering. During the regular school terms, tutors are available for the students (one-to-one as well as in groups).

**Personal Counseling.** Students are interviewed and counseled (one-to-one as well as in groups) by PEI-P staff and faculty in the School of Engineering. In addition, Peer Counselors are available to assist the counseling and tutorial coordinators in contacting students and helping them (students) resolve their personal, social, and academic problems.

**Summer Job Placement.** PEI-P maintains contact with the University Placement Service as well as with several of the Pittsburgh engineering firms, to aid minority and other disadvantaged students looking for career, part-time, or summer jobs in the field of engineering.

## Contact Person(s):

Karl H. Lewis, Ph.D.
University of Pittsburgh
122 Benedum Hall
Pittsburgh, Pennsylvania 15261
[412-624-4765]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 46 | 34 | 13 | 20 | – |
| HISPANICS | 4 | 1 | 1 | – | – |
| WOMEN | 124 | 136 | 102 | 96 | – |

### By Class & Minority Group: Fall, 1982

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 37 | 43 | 31 | 16 | – |
| HISPANICS | 2 | 4 | 1 | 1 | – |
| WOMEN | 103 | 118 | 156 | 113 | – |

# VILLANOVA UNIVERSITY
# COLLEGE OF ENGINEERING
### Villanova, Pennsylvania 19085

Villanova's campus is situated at Villanova, Pennsylvania on Lancaster Pike (U.S. Route 30), six miles west of City Line, Philadelphia, PA. Villanova University is a privately supported Catholic University with an enrollment of approximately 6,000 full-time undergraduates. Forty-five percent of its students reside on campus and all divisions of the University are coeducational. Villanova University admits students of any race, color, sex, and national or ethnic origin.

## Description of Program(s)

**Recruitment.** Although the College of Engineering does not have a particular minority recruiting program, an emphasis is placed on increased minority enrollment. Two organizations, Villanova Informed Black Engineering Society (V.I.B.E.S.) and the Society of Women Engineers (S.W.E.) offer additional support to Black Engineering students and women, respectively.

The University provides *Programs for Women*, a service program which assists adult women in returning to study.

Any qualified minority student is, indeed, encouraged to apply to Villanova Engineering. Materials describing Engineering programs are available from the Office of the Dean of Engineering, in care of the University.

**Academic Support.** All Engineering students are provided an academic advisor in their given major. Villanova's engineering honor society, Tau Beta Pi, provides free tutoring services to any interested student.

**Personal Counseling.** Personal counseling is available from the University's Counseling Center to any Villanova University student.

**Summer Job Placement.** Services related to Employment opportunities are provided by the University's Career Development Center. The Engineering College has developed a Summer Technical Experience Program (S.T.E.P.) which also assists a student's employment efforts.

## Contact Person(s):

Dr. Robert Dellanoce
Villanova University
Villanova, Pennsylvania 19085
[215-645-4940]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 3 | 4 | 3 | 2 | – |
| HISPANICS | – | – | 1 | – | – |
| WOMEN | 56 | 37 | 40 | 27 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 3 | 5 | 2 | 4 | – |
| HISPANICS | 5 | – | – | 1 | – |
| WOMEN | 63 | 53 | 50 | 27 | – |

# BRADLEY UNIVERSITY
# COLLEGE OF ENGINEERING
## Peoria, Illinois 61625

Bradley University is a comprehensive, private university. Total graduate and undergraduate enrollment is 5,700. The University offers 65 majors in six colleges.

## Description of Program(s)

**Recruitment.** The University has three programs yearly (St. Louis, Chicago, Peoria) entitled "What's in Engineering and Business for Women?" The purpose is to expose women to the benefits of a career in traditionally male fields.

**Academic Support.** N/A

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

## Contact Person(s):

Jane C. Linnenburger
Co-op Project Director
Bradley University
Peoria, Illinois 61625
[309-676-7611, x380]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT
By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 3 | – | – |
| BLACKS | 7 | 9 | 14 | 8 | – |
| HISPANICS | 3 | 4 | 1 | 2 | – |
| WOMEN | 25 | 25 | 21 | 37 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 1 | – | – |
| BLACKS | 10 | 14 | 8 | 10 | – |
| HISPANICS | 3 | 3 | 4 | – | – |
| WOMEN | 42 | 26 | 40 | 22 | – |

# ILLINOIS INSTITUTE OF TECHNOLOGY COLLEGE OF ENGINEERING

Chicago, Illinois 60616

The Illinois Institute of Technology, an institution offering undergraduate and graduate programs through six schools and colleges, is located three miles south of downtown Chicago, has an enrollment of 3,700 undergraduates (50% resident and 50% commuters).

## Description of Program(s)

**Recruitment.** Identification, selection and academic development of pre-college students, to aid in the admission, retention and placement (with follow-up) of minority groups.

**Academic Support.** Tutoring, financial aid, summer placement, co-op counseling are all special services.

**Personal Counseling.** Daily formal counseling, peer counseling, and incidental counseling are all a part of this program.

**Summer Job Placement.** Summer job placement is a regular activity of this program.

## Contact Person(s):

Nate Thomas
Director of Special Programs
10 W. 32nd Street, Room 111E1
Chicago, Illinois 60616
[312-567-5111]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 97 | 75 | 55 | 80 | 7 |
| HISPANICS | 35 | 29 | 19 | 5 | 5 |
| WOMEN | 81 | 46 | 49 | 42 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 93 | 81 | 68 | 55 | 8 |
| HISPANICS | 33 | 18 | 20 | 19 | 3 |
| WOMEN | 73 | 50 | 53 | 51 | – |

# NORTHWESTERN UNIVERSITY
# SCHOOL OF ENGINEERING
### Evanston, Illinois 60201

Private University in Evanston, Illinois. Six undergraduate schools enrolling 6,800 students, graduate school with masters and Ph.D. programs enrolling 2,500 students. Technological Institute School of Engineering and Applied Sciences with seven departments and fourteen major fields of study for bachelors, masters and Ph.D. programs in all fields, enrolling 1,300 undergraduates and 650 graduate students.

## Description of Program(s)

**Recruitment.** General recruiting of minorities is done on an overall University basis with visitations by special representatives made to high schools with high minority populations across the country. The Northwestern student Chapter of the National Society of Black Engineers is very active with Chicago area high schools: visits to the Technical Institute are hosted and student teams are sent to high schools as career speakers. Individualized consideration is given with more attention to subjective evaluation than to numerical indices such as entrance examination scores. No minority student has been admitted without full financial need being met. Special consideration is given minorities in need analysis and grant aid has regularly been at level roughly $1,000 more than the average grant.

**Academic Support.** A five-week on campus science and mathematics program for admitted minority students to enable both academic and sociocultural adjustment has been offered regularly in the pre-freshman summer period.

**Personal Counseling.** Counseling-Tutoring readily available in the Technological Institute. This has been responsive to and highly utilized by minority students.

**Summer Job Placement.** Student activities coordinator working with the student chapter of National Society of Black Engineers serves as summer job placement coordinator, contacting companies and other organizations in locating job and internship opportunities and matching with student needs.

## Contact Person(s):

William T. Brazelton (Acting)
Northwestern University
Technological Institute
Evanston, Illinois 60201
[312-492-7379]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | – | – | – |
| BLACKS | 36 | 29 | 35 | 26 | 2 |
| HISPANICS | 1 | 8 | 2 | 6 | – |
| WOMEN | 78 | 70 | 77 | 74 | 14 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 1 | – | – | – |
| BLACKS | 32 | 39 | 25 | 29 | 4 |
| HISPANICS | 2 | 3 | 9 | 4 | 2 |
| WOMEN | 76 | 81 | 63 | 71 | 20 |

# SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE
# COLLEGE OF ENGINEERING & TECHNOLOGY
## Carbondale, Illinois 62901

A senior, public University located about 100 miles southeast of St. Louis, MO and 350 miles south of Chicago, IL. The University campus comprises more than 3,290 acres. The University has an enrollment of 23,991. The College has 1,866 campus majors.

## Description of Program(s)

**Recruitment.** The College of Engineering and Technology does not actively recruit students for the College; the Office of Admissions and Records is responsible for the recruitment effort. There is a person responsible for recruiting minorities (Black students).

**Academic Support.** There is some tutoring available through the Mathematics department, and there is tutorial assistance available for the lower division student through General Academic Programs.

**Personal Counseling.** The University has a Counseling Center which handles personal counseling.

**Summer Job Placement.** The University has a Career Planning and Placement Center which assists students with job placement.

## Contact Person(s):

Harriet E. Wilson
Coordinator of Minority Student Enrollment
Office of Admissions & Records
Southern Illinois University
Carbondale, Illinois 62901
[618-453-4381]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | – | 2 | – |
| BLACKS | 9 | 6 | 7 | 7 | – |
| HISPANICS | 3 | 2 | 3 | 3 | – |
| WOMEN | 25 | 19 | 17 | 15 | – |

### By Class & Minority Group: Fall, 1982, (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 1 | – | – | – |
| BLACKS | 6 | 9 | 6 | 7 | – |
| HISPANICS | 3 | 3 | 2 | 3 | – |
| WOMEN | 16 | 31 | 21 | 23 | – |

# UNIVERSITY OF ILLINOIS SCHOOL OF ENGINEERING

## Urbana, Illinois 61801

Located in twin cities of Urbana-Champaign, 120 miles south of Chicago. University has approximately 33,000 students of which 5,700 are undergraduate engineers and 1,700 are graduate engineers. B.S., M.S. and Ph.D. degrees are offered through 14 engineering departments with co-op and intern programs available in most disciplines.

### Description of Program(s)

**Recruitment.** Basically all recruiting is limited to in-state. Recruiting is accomplished through high school visits, career day participation, Engineering Open House, summer programs, pre-college program and college day/night participation at the high schools. Out-of-state contact is primarily by referral and correspondence.

**Academic Support.** Tutorial support is provided in individual, group, or class review format for most courses through the junior year. Limited support is available for seniors but it comes mostly from the faculty teaching the course.

**Personal Counseling.** Counseling is provided on multiple levels. Peer level is accomplished with graduate students, the Associate Dean's Office handles careers, and psychological counseling is done through Student Services.

**Summer Job Placement.** Resumes are coordinated through the office and contracts made with industrial representatives based on students' curriculum, classification and location preference.

### Contact Person(s):

Paul E. Parker
1308 W. Green
207 Engineering Hall
Urbana, Illinois 61801
[217-333-2280]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 3 | – | 4 | – |
| BLACKS | 62 | 36 | 24 | 22 | – |
| HISPANICS | 20 | 16 | 17 | 17 | – |
| WOMEN | 252 | 189 | 237 | 237 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 3 | – | – |
| BLACKS | 61 | 36 | 29 | 20 | – |
| HISPANICS | 24 | 10 | 22 | 20 | – |
| WOMEN | 256 | 187 | 228 | 279 | – |

# INDIANA UNIVERSITY - PURDUE UNIVERSITY SCHOOL OF ENGINEERING AND TECHNOLOGY AT INDIANAPOLIS

### Indianapolis, Indiana 46202

Purdue University School of Engineering and Technology at Indianapolis, is part of Indiana University-Purdue University at Indianapolis (IUPUI), and is located in an urban environment adjacent to downtown Indianapolis. IUPUI enrollment is 23,000 students; School of Engineering and Technology enrollment is 2,800. Four year programs is engineering and master's level graduate work are offered. The School also offers two-and-four year programs in computer, electrical, manufacturing and construction technology, as well as supervision plus two-year program in hotel and institutional management.

## Description of Program(s)

**Recruitment.** Program for minorities (Blacks, mainly) involves high schoolers in grades 9-12 in pre-college summer workshops which stress lecture and laboratory academic work, tours of industries and pre-co-op jobs in industry, all to encourage participants to pursue an engineering collegiate career. Program for women retrains persons with prior degrees to become electrical engineers.

**Academic Support.** For minorities: academic instruction in computer technology, electrical, mechanical and civil engineering and learning via computer assisted instruction. Women: a "fast track" coverage of the electrical engineering curriculum.

**Personal Counseling.** Minority program: much personal counseling given the high school participants as they seek their role in the field of engineering. Also, program staff offers much counseling to minorities in our school at the college level. Women: counseling given as needed to participants.

**Summer Job Placement.** Minorities: students who have graduated from high school (at level IV in program) are placed, as possible, in meaningful pre-co-op industrial positions prior to college entrance. Women: all participants work in year-round intern positions.

## Contact Person(s):

Minority Program:
Mr. Gerald O. Thompkins
Purdue University School of Engineering
and Technology
799 West Michigan Street
Indianapolis, Indiana 46202
[317-264-8391]

Women Program:
Mrs. Susan Herrmann
Purdue University School of Engineering
and Technology
799 West Michigan Street
Indianapolis, Indiana 46202
[317-264-2943]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 13 | 6 | 5 | – | – |
| HISPANICS | 1 | 1 | – | – | – |
| WOMEN | 15 | 14 | 8 | 1 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 12 | 6 | 5 | 5 | – |
| HISPANICS | 1 | 1 | 1 | – | – |
| WOMEN | 14 | 11 | 9 | 9 | – |

# PURDUE UNIVERSITY
# COLLEGE OF ENGINEERING
## West Lafayette, Indiana 47907

Purdue is a land grant university located in West Lafayette, Indiana (population approximately 20,500) which is adjacent to the city of Lafayette (population approximately 45,000) in central Indiana, about an hour's drive north of Indianapolis. Purdue has a total enrollment of over 32,000 students. Minority students account for just over 5 percent of the total student population.

### Description of Minority Program(s)

**Recruitment.** Purdue University has several on-going projects for the recruitment of minority students. They are: Target Cities Luncheons, Engineering Preview, Engineering Prospectives and Premiere, Merit Award Program, Bulk Mailings, Phone-A-Thon, and Letter-Writing Campaign.

**Academic Support and Personal Counseling.** Purdue has several programs for minority students that offer personal counseling and academic support. They are: General Academic and Personal Counseling, Minority Engineering Seminar: Engineering 195-M, National Action Council for Minorities in Engineering, Inc., Retention Project: Engineering 195-R, Special Tutors, Incentive and Recognition Awards, Advise Society of Black Engineers.

**Summer Job Placement.** Assist Placement Office and industrial contacts with identifying potential minority and female engineering employers for summer and permanent job placement.

### Contact Person(s):

Marion W. Blalock
Director, Minority Engineering Programs
Department of Freshman Engineering
ENAD Building
Purdue University
West Lafayette, Indiana 47907
[317-494-3974]

### Description of Women's Program(s)

**Recruitment.** Purdue's Women in Engineering Programs for the recruitment of women into engineering careers are: Prospective Student Identification, Women in Engineering Brochures, Summer Seminars on Engineering, Women in Engineering Career Day, "Future Focus" Programs, Women on the Move, and Women in Engineering Poster.

**Academic Support and Personal Counseling.** Merit awards, seminars on women in engineering, Feminengineer (a newsletter) and an active Society of Women in Engineering offer both academic support and personal counseling/support for women in engineering studies at Purdue. Purdue has the largest enrollment of women engineering students in the United States.

**Summer Job Placement.** Assist Placement Office and industrial contacts with identifying potential minority and female engineering employers for summer and permanent job placement.

### Contact Person(s):

Ms. Jane Z. Daniels
Director, Women in Engineering Programs
Department of Freshman Engineering
ENAD Building
Purdue University
West Lafayette, Indiana 47907
[317-494-3974]

*Continued on next page*

## FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 2 | 1 | 1 | – |
| BLACKS | 86 | 72 | 72 | 54 | – |
| HISPANICS | 16 | 18 | 12 | 22 | – |
| WOMEN | 326 | 285 | 267 | 292 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | 2 | 1 | – |
| BLACKS | 82 | 82 | 58 | 70 | – |
| HISPANICS | 14 | 15 | 22 | 14 | – |
| WOMEN | 337 | 286 | 193 | 306 | – |

# GMI ENGINEERING AND MANAGEMENT INSTITUTE SCHOOL OF ENGINEERING

## Flint, Michigan 48502

GMI, located in Flint, Michigan, offers a five-year cooperative program leading to a bachelor's degree in mechanical, electrical and industrial engineering and industrial administration. GMI is accredited by the North Central Association and the Accreditation Board for Engineering and Technology. Students are selected nationwide and current enrollment is approximately 2,400. Students represent the top ten percent of their high school class. Thirty-four percent are women, 18 percent are minorities and approximately 70 percent of all engineering students graduate.

### Description of Program(s)

**Recruitment.** N/A

**Academic Support.** N/A

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

### Contact Person(s):

Fern R. Ramirez, Ph.D.
1700 W. Third Avenue
Flint, Michigan 48502
[313-762-7865]

**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 1 | – | 1 |
| BLACKS | 57 | 26 | 25 | 22 | 28 |
| HISPANICS | 16 | 11 | 13 | 5 | 3 |
| WOMEN | 170 | 110 | – | – | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 3 | 1 | 1 | – |
| BLACKS | 53 | 34 | 19 | 22 | 22 |
| HISPANICS | 16 | 13 | 8 | 12 | 5 |
| WOMEN | 140 | 131 | 52 | – | – |

# MICHIGAN STATE UNIVERSITY
# COLLEGE OF ENGINEERING
## East Lansing, Michigan 48824

Michigan State University, located in East Lansing, Michigan, a community of approximately 40,000, midway between Detroit and Grand Rapids, has an enrollment of approximately 42,000 graduate and undergraduate students. College of Engineering enrolled 4,100 undergraduate students in Fall 1981 with 390 minority students.

### Description of Program(s)

**Recruitment.** No coordinated effort at this time.

**Academic Support.** The college supports an Office of Minority Student Education which provides special courses in Pre-Calculus mathematics and Introductory Sciences. The OMSE also provides tutorial assistance at all levels and in all technical subject areas.

**Personal Counseling.** The OMSE supports an academic advisor specifically for minority engineers. There is also a peer counseling program utilizing upper class persons as role models and support personally. Additionally, two student organizations, Minority Students in Engineering and the National Society of Black Engineers offer assistance and guidance.

**Summer Job Placement:** Once a year, there is a "Careers Night" which provides students the opportunity to make contact with business representatives. There is also a yearly banquet which recognizes corporate support and also provides job contacts. The University's Placement Services handles most of the summer employment activities.

### Contact Person(s):

Dr. George Van Dusen, Assistant Dean
112 Engineering Building
Michigan State University
East Lansing, Michigan 48824
[517-355-5128]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 2 | 1 | – |
| BLACKS | 175 | 60 | 24 | 32 | – |
| HISPANICS | 24 | 5 | 5 | 2 | – |
| WOMEN | 368 | 248 | 164 | 192 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 3 | 1 | 2 | – |
| BLACKS | 148 | 72 | 33 | 17 | – |
| HISPANICS | 13 | 24 | 5 | 5 | – |
| WOMEN | 323 | 290 | 192 | 196 | – |

# OAKLAND UNIVERSITY SCHOOL OF ENGINEERING

## Rochester, Michigan 48063

Oakland University, located in Rochester, Michigan, a city of approximately 7,100 people and 25 miles north of Detroit. The School of Engineering has a student enrollment of 1,500 students. Of the 1,500 students, 800 are Engineering undergraduates. B.S. degrees in Engineering, Computer and Information Science, M.S. degrees in Engineering and Computer and Information Science, Ph.D. in Engineering.

### Description of Program(s)

**Recruitment.** Financial Aid, Scholarships.

**Academic Support.** Summer Support Program, Tutoring.

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

### Contact Person(s):

Gregory P. Knoff
School of Engineering
Oakland University
Rochester, Michigan 48063
[313-377-2200]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

#### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | – | 1 | – |
| BLACKS | 33 | 12 | 6 | 3 | – |
| HISPANICS | 3 | – | 2 | 3 | – |
| WOMEN | 61 | 40 | 26 | 31 | – |

#### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 2 | – | – | – |
| BLACKS | 19 | 31 | 11 | 3 | – |
| HISPANICS | 2 | 2 | – | 2 | – |
| WOMEN | 43 | 69 | 29 | 34 | – |

# UNIVERSITY OF MICHIGAN-DEARBORN SCHOOL OF ENGINEERING

## Dearborn, Michigan 48128

Urban (located 10 miles from the heart of downtown Detroit; three miles from Detroit city limits); 6,500 students enrolled (1,200 in Engineering); primarily commuter campus with only 32 on-campus housing facilities; cooperative education opportunity in all academic units (on an alternating term basis); many students work part-time; many are first in their family to attend college; 210 acres with natural wildlife area and Henry Ford I's mansion on grounds.

## Description of Program(s)

**Recruitment.** The Minority Engineering Program at the University of Michigan-Dearborn is a cooperative effort consisting of: the Director of the Engineering Projects Office within the School of Engineering; the Director of the Program for Academic Support (for students in all academic areas, including some engineers); and, a Senior Admissions Officer (who recruits at primarily minority schools within the city of Detroit and its environs). All three of these individuals are in contact with each other throughout the year and act together in many instances as well as individually within their spheres of responsibility.

The recruitment of students is primarily the responsibility of the Senior Admissions Officer. The Director of the Engineering Projects Office participates in the process in the following ways: through her involvement in the pre-college program (grades 7-12); by attending career day activities on behalf of the Office of Admissions; and, by individual counseling of students considering UM-Dearborn (usually—but not exclusively—at the suggestion of the admissions officer).

The same Senior Admissions Officer recruits for the Program for Academic Support (PAS). The PAS activity was designed to meet the needs of students who, through no fault of their own, suffered some sort of disadvantage and are unable to meet normal admission requirements, but who have demonstrated potential to succeed at UM-Dearborn. The PAS Program begins in late June and continues through August preceeding the freshman year. Students can maintain contact with the PAS Office, and are encouraged (occasionally required) to do so at least through their first year of college. Students interested in engineering are directed to make contact with their advocate in the School of Engineering — the Director of the Engineering Projects Office. NOTE: At UM-Dearborn, students with an interest in engineering are admitted to the School in their freshman year; they need not wait two years to petition for admission.

**Academic Support.** This activity takes two forms: through the PAS Program and through the Engineering Projects Office. In the PAS mode, only those students who entered through the PAS Program are required to make use of their tutoring and counseling services. Students admitted through normal channels as well as PAS students are asked to use the Engineering Projects Office when in need of assistance. The School of Engineering offers a free tutorial service to its students — primarily for math, science and engineering courses.

In the PAS Summer Component, a special "coping" class is offered to familiarize students with the ins and outs of university life. There are also two or three courses designed to introduce math and science concepts to students denied this opportunity in high school.

**Personal Counseling.** The student is encouraged to talk with someone quickly whenever a problem arises. There are three sources for personal counseling: the Counseling Center; the PAS Director; and, the Director of the Engineering Projects Office. (We frequently make referrals to one another if we feel it would be more beneficial.) The student can choose with whom he wishes to discuss any problems.)

**Summer Job Placement.** Engineering students generally seek summer job placements through the School of Engineering. NACME scholars are supplied with SEEP information; others are assisted on an individual basis.

The School of Engineering has a cooperative internship program which commences at completion of the sophomore year and operates on an alternating term basis. (Our institution has three full terms during the year in order to accommodate Co-op students returning from an internship in the Winter Term — January through April.) We strongly encourage participation in this program for financial and academic reasons.

*Continued on next page*

## UNIVERSITY OF MICHIGAN-DEARBORN *continued*

**Other.** The campus has a Learning Skills Center available to all students and covering such topics as "Test Anxiety," "Reading for Comprehension," "How to Study for and Take Exams," "Speed Reading," and other similar topics. It is extensively used.

There is a very active Women's Center on campus designed to meet the special needs of women students of all kinds — traditional, returning, divorced, career changers, etc. It sponsors many informal gatherings and has a special counseling component. The Center also sponsors career fairs.

### Contact Person(s):

Ms. Patricia M. Yeager
Director of the Engineering Projects Office
or,

Mr. Richard Turner
Senior Admissions Officer
The University of Michigan-Dearborn
4901 Evergreen
Dearborn, Michigan 48128
[313-593-5488]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | 1 | – |
| BLACKS | 15 | 9 | 5 | – | – |
| HISPANICS | 5 | 5 | 1 | – | – |
| WOMEN | 32 | 37 | 40 | 14 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 15 | 8 | 6 | 5 | – |
| HISPANICS | 7 | 5 | 3 | 1 | – |
| WOMEN | 39 | 26 | 42 | 21 | – |

# WAYNE STATE UNIVERSITY
# COLLEGE OF ENGINEERING
## Detroit, Michigan 48202

Wayne State University is an urban university with approximately 27,000 students, and nearly 5,000 faculty, staff and support personnel. With almost 5,000 courses offered each year, Wayne State probably offers one of the most diverse sets of academic programs of any university in Michigan, Indiana, Ohio and Ontario (Canada). The College of Engineering, with an enrollment of 2,724 (2,264 undergraduates, 460 graduates), offers degrees in Chemical, Civil, Electrical and Computer, Industrial, Mechanical, and Metallurgical Engineering. There is a large research program that continues to expand, and growth continues in several significant areas.

## Description of Program(s)

**Recruitment.** This has been done through visits to community colleges, mailings identified through Educational Testing Service (ACT and SAT scores), data from NACME, visits to the college by high school students, and mailing of requested materials (brochures) to prospective students.

**Academic Support.** With the cooperation of Tau Beta Pi (Engineering Honor Society), and the Association of Black Engineers and Applied Scientists tutoring is offered by scheduled appointments.

**Personal Counseling.** This function is provided through the Office of Special Programs.

**Summer Job Placement.** Summer job placement is handled through the University Placement Office and the Office of Special Programs. NACME-SEEP is utilized by recipients of NACME grants.

## Contact Person(s)

James E. Facen
Wayne State University
5050 Anthony Wayne Drive
Detroit, Michigan 48202
[313-577-3812]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 4 | 1 | – |
| BLACKS | 60 | 38 | 15 | 23 | – |
| HISPANICS | 6 | 2 | 2 | 1 | – |
| WOMEN | 96 | 78 | 54 | 62 | 5 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 4 | 1 | – |
| BLACKS | 106 | 17 | 19 | 19 | – |
| HISPANICS | 9 | 1 | 1 | 1 | – |
| WOMEN | 76 | 93 | 71 | 68 | 4 |

# CASE WESTERN RESERVE UNIVERSITY SCHOOL OF ENGINEERING

## Cleveland, Ohio 44106

Case Institute of Technology enrollment is 1,397. Case Western Reserve University is a co-educational, non-denominational, private University. It comprises two undergraduate colleges (Case Institute of Technology and Western Reserve College) as well as a graduate school and seven professional schools. The campus is located about four miles east of downtown Cleveland in the University Circle area. The campus size is 128 acres. University enrollment is: undergraduate 3,286 and graduate and professional 5,400. The largest proportion of out-of-state students comes from New England, Mid-Atlantic and Great Lakes states. Student-faculty ratio is nine to one. Eighty-five percent of the undergraduate student population resides in 15 University residence halls, eight on campus fraternities and eight off-campus fraternity houses. There are three residence halls on campus for graduate and professional students. School of Engineering enrollment is 952. Minority enrollment is 68.

## Description of Program(s)

**Recruitment.** There is a part-time recruiter who visits local and out-of-town schools for the MEIOP pre-college program and the University.

**Academic Support.** Academic support is as follows: A summer pre-freshman program that offers a mathematics review, study skills, college survival skills, etc., study laboratories throughout the academic year with tutors at the labs.

**Personal Counseling.** Personal counseling is done by the MEIOP staff. Also academic counseling.

**Summer Job Placement.** Summer placement is done by the MEIOP staff. (Students are placed in six states during the summer.)

## Contact Person(s):

Margaret E. Boulding
Case Western Reserve University
Pardee Hall, Room 320
Cleveland, Ohio 44106
[216-368-2904]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | 3 | – |
| BLACKS | 27 | 15 | 11 | 6 | – |
| HISPANICS | 5 | 8 | 1 | 2 | – |
| WOMEN | 9 | 48 | 38 | 33 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 10 | 40 | 10 | 14 | – |
| HISPANICS | 3 | 5 | 8 | 1 | – |
| WOMEN | 8 | 44 | 47 | 43 | – |

# CLEVELAND STATE UNIVERSITY SCHOOL OF ENGINEERING

### Cleveland, Ohio 44106

The University is located in the heart of downtown Cleveland. With a student body of almost 20,000, there are many activities available to students. The College of Engineering has an enrollment of 2,000.

## Description of Program(s)

**Recruitment.** Students who are accepted for Engineering attend a six-week summer program in which their mathematics and communications skills are strengthened.

**Academic Support.** During the school year, individual tutors are assigned to the students to assist them in their course work.

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

## Contact Person(s):

Dr. E.S. Gooleski
Cleveland State University
Cleveland, Ohio 44106
[216-687-2555]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | – | – | – |
| BLACKS | 18 | 5 | 7 | 3 | – |
| HISPANICS | – | 1 | 2 | 1 | – |
| WOMEN | 33 | 34 | 20 | 36 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 2 | – | – | – |
| BLACKS | 20 | 6 | 5 | 4 | – |
| HISPANICS | – | – | 1 | 2 | – |
| WOMEN | 46 | 24 | 26 | 28 | – |

# OHIO UNIVERSITY
# SCHOOL OF ENGINEERING
### Athens, Ohio 45701

Ohio University is a residential university located in Athens, Ohio, about 75 miles southeast of Columbus. Ohio University is the first institution of higher learning in the Old Northwest Territory, founded in 1804. The College of Engineering is one of eight degree granting colleges of Ohio University and has an undergraduate enrollment of 1,286 and a graduate enrollment of 144 on the Athens Campus. The total University enrollment is approximately 14,500 on the Athens Campus and approximately 6,000 students on its Branch Campuses, making the total enrollment approximately 20,000.

## Description of Program(s)

**Recruitment.** Announcements of the programs are sent to high schools and recruiting trips are used to attract students. There are two programs. One consists of a ten-week program directed toward high school graduates and providing an interface in the engineering curricula along with advising and counseling. Another two-week program is directed at students between their junior and senior years of high school and is intended to provide an introduction to the engineering professions.

**Academic Support.** Special testing, advising and counseling are provided initially and special courses in mathematics, English, chemistry and engineering are offered. Special tutoring and counseling is given throughout the program.

Financial Support: All tuition costs are provided along with one-half the cost of room and board. Work-study opportunities are possible which can be used to offset the one-half cost of the room and board (approximately $375). The total value of the package is approximately $1,000 to $1,200.

**Personal Counseling.** Counseling and advising are an integral part of the program and are continued throughout the ten weeks.

**Summer Job Placement.** No effort is directed toward this at the present time; however, such an activity is in the planning stages.

## Contact Person(s):

Dr. Joseph E. Essman, Associate Dean
College of Engineering and Technology
Ohio University
Athens, Ohio 45701
[614-594-5641]

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**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 30 | 14 | 4 | 3 | – |
| HISPANICS | 2 | – | – | – | – |
| WOMEN | 35 | 33 | 14 | 18 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 22 | 22 | 3 | 5 | – |
| HISPANICS | – | 2 | – | – | – |
| WOMEN | 29 | 35 | 35 | 33 | – |

# UNIVERSITY OF CINCINNATI COLLEGE OF ENGINEERING

Cincinnati, Ohio 45221

An urban university in Cincinnati, Ohio. Student enrollment: total - 38,895, College of Engineering - 2,265 undergraduate and 794 graduate students.

## Description of Program(s)

**Recruitment.** There is a joint University of Cincinnati - EPA Summer Minority Research Apprenticeship Program where many students are recruited for future classes.

**Academic Support.** Tutorial programs, minority-women student organizations, tuition assistance, speakers from various companies, special courses, special counseling.

**Personal Counseling.** This is available in several Minority Counseling Offices throughout the campus. In addition, there is a Counseling Office in the Engineering administration.

**Summer Job Placement.** Co-operative Program, which means that students are either in school or working in the second, third and fourth year. Students can only participate in a summer job program between the first and second year.

## Contact Person(s):

James E. Wade
Associate Dean for Special Programs and Projects
College of Engineering
University of Cincinnati
M.L. 18
Cincinnati, Ohio 45221
[513-475-1164]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | – | – | – | – |
| BLACKS | 20 | 9 | 7 | 6 | 11 |
| HISPANICS | 3 | 1 | 2 | 1 | 1 |
| WOMEN | 87 | 64 | 44 | 38 | 47 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 3 | – | – | – |
| BLACKS | 21 | 6 | 10 | 5 | 5 |
| HISPANICS | 3 | 2 | 1 | 2 | 1 |
| WOMEN | 112 | 63 | 47 | 35 | 42 |

# MARQUETTE UNIVERSITY
# COLLEGE OF ENGINEERING
## Milwaukee, Wisconsin 53233

Marquette is a large urban university located in the center of the city of Milwaukee and serving about 9,000 undergraduate students.

## Description of Program(s)

**Recruitment.** The Educational Opportunity Program recruits and serves low-income and first-generation college students without regard to race. About 80 percent of the Program's students are Black and about 10 percent are Hispanic, with a small number of American Indians.

**Academic Support.** The Program provides tutors and special instruction as needed. Most incoming freshmen participate in a preparatory summer program.

**Personal Counseling.** All EOP students receive personal and academic counseling from program staff as well as academic advising through their major programs. Marquette's College of Engineering under Dean Raymond J. Kipp has provided particularly strong counseling for minority and disadvantaged students.

**Summer Job Placement.** EOP's engineering students receive co-op and other job information primarily through the College of Engineering.

## Contact Person(s):

Arnold L. Mitchem
Educational Opportunity Program
Marquette University
1217 West Wisconsin Avenue
Milwaukee, Wisconsin 53233
[414-224-7584]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 1 | – | – | – |
| BLACKS | 8 | 14 | 8 | 9 | – |
| HISPANICS | 13 | 13 | 4 | 2 | – |
| WOMEN | 97 | 61 | 55 | 36 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | 1 | – | – |
| BLACKS | 16 | 7 | 6 | 6 | – |
| HISPANICS | 14 | 11 | 5 | 3 | – |
| WOMEN | 82 | 87 | 59 | 48 | – |

# MILWAUKEE SCHOOL OF ENGINEERING

## Milwaukee, Wisconsin 53201

The Milwaukee School of Engineering is located in downtown, metropolitan Milwaukee, in the hub of business activity. The enrollment averages about 2,000 a quarter for both day and night schools.

### Description of Program(s)

**Recruitment.** When qualified minority students are identified, they are personally contacted and offered counseling. Once they have applied to MSOE, they are brought to campus and again are offered educational and vocational counseling to help them with degree selection for realistic career goals. Some minority students have been given the opportunity to visit various industries in Milwaukee to help them make a realistic choice of degree programs which will lead to a career in a field they will enjoy.

**Academic Support and Personal Counseling.** MSOE has developed an "early warning" system which requires students to participate in an interview/counseling session with either the Counseling Services or Special Services Program if they: have been admitted on probation, have completed 45 or less earned credits but have not maintained a minimum cumulative GPA of 2.0, and have been terminated but have been allowed by the Student Advancement Committee (the appeal process of MSOE) to continue in attendance.

Through this interview/counseling session, the student will be encouraged to take advantage of the various support services available to raise his GPA.

**TOM.** One of the service organizations, Tau Omega Mu, is honorary fraternity founded in 1953 for the purpose of tutoring lower term students who need extra help in their studies; TOM members donate two hours each week to tutoring assistance and all lower term students are invited to take advantage of this free service.

**NSBE.** The National Society of Black Engineers is an engineering student service organization that provides peer counseling and tutoring to students who are having difficulties with particular subject areas. The NSBE and NTA on the MSOE campus have combined efforts to improve the quality of life for MSOE minority students.

**Special Services.** Special Services at MSOE offers personal, academic and vocational counseling, as well as peer tutoring assistance for freshmen and sophomore students who are first-generation and/or economically disadvantaged minorities. The tutoring component of Special Services is coordinated with the tutoring offered by TOM, one of the service organizations mentioned earlier. Through this coordination, the tutoring needs of students at MSOE can be met whether they call for walk-in/problem-solving, or long-term tutoring.

Study/Review classes, taught by faculty, are offered through the Special Services Program, to those students who are having difficulty with courses in engineering, math, physics, or chemistry. Students are encouraged to use as many of our services as they find helpful throughout the school year.

**Summer Job Placement.** N/A

### Contact Person(s):

Jill Brooks
Coordinator/Counselor
Special Services
or
Dr. Donald Ashby
Director, Career Development Department
Milwaukee School of Engineering
P.O. Box #644
Milwaukee, Wisconsin 53201
Brooks: [414-277-7265]
Ashby: [414-277-7261]

# UNIVERSITY OF WISCONSIN-MADISON
# COLLEGE OF ENGINEERING
## Madison, Wisconsin 53706

Big 10 university, located in south central Wisconsin, in Madison, (Capitol of state), with a city population of about 179,000. The University of Wisconsin at Madison has a student enrollment of 42,100.

### Description of Program(s)

**Recruitment.** Recruitment efforts are State, National, via high school visits, Talent Search Organization: NACME, Special Recruitments Fair, mailings and student-to-student recruitment program over the holidays.

**Academic Support.** Minorities Engineering Program offers tutoring in chemistry, physics, mathematics, and engineering courses. Freshmen are placed in an orientation program for six weeks during the first semester.

**Personal Counseling.** Academic and general counseling sessions are provided by the staff of the Minorities Engineering Program. Students with academic difficulty are monitored frequently.

**Summer Job Placement.** The Minorities Engineering Program makes an effort to place students in co-op or summer internships. During the first week of February a Job Fair is held for this purpose.

### Contact Person(s):

Alfred L. Hampton, Director
University of Wisconsin-Madison
1527 University Avenue
Madison, Wisconsin 53706
[608-262-7764]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | 4 | 2 | – |
| BLACKS | 32 | 31 | 26 | 27 | – |
| HISPANICS | 10 | 11 | 12 | 13 | – |
| WOMEN | 176 | 114 | 132 | 199 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 2 | – | 4 | – |
| BLACKS | 38 | 22 | 30 | 24 | – |
| HISPANICS | 12 | 9 | 11 | 14 | – |
| WOMEN | 151 | 145 | 137 | 195 | – |

# UNIVERSITY OF WISCONSIN-MILWAUKEE COLLEGE OF ENGINEERING

## Milwaukee, Wisconsin 53201

University of Wisconsin, located in Milwaukee, has an undergraduate enrollment of approximately 1,400 students preparing for Bachelor's degrees in Civil, Mechanical, Electrical, Industrial and Materials Engineering, plus Computer Science. Three hundred graduate students preparing for Master of Science and Doctor of Engineering degrees.

### Description of Program(s)

**Recruitment.** Career orientation programs for pre-college students.

**Academic Support.** Summer courses in math and science for pre-college students. Tutoring is available for students at both pre-college and college levels.

**Personal Counseling.** College level students during academic year. Also, counseling available for pre-college students during the summer.

**Summer Job Placement.** Not to any significant degree.

### Contact Person(s):

Rose Daitsman
University of Wisconsin-Milwaukee
P.O. Box 784
Milwaukee, Wisconsin 53201
[414-963-5356]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | 2 | – |
| BLACKS | 5 | 9 | 1 | 3 | – |
| HISPANICS | 1 | 3 | – | 1 | – |
| WOMEN | 40 | 41 | 26 | 32 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 1 | – | – |
| BLACKS | 9 | 3 | 2 | 3 | – |
| HISPANICS | 2 | 1 | 3 | – | – |
| WOMEN | 45 | 43 | 33 | 46 | – |

# IOWA STATE UNIVERSITY COLLEGE OF ENGINEERING

## Ames, Iowa 50011

Iowa State University, a land grant college located in Ames, Iowa (a city of 45,000 people) has an enrollment of approximately 25,000 students. The College of Engineering has an enrollment of 5,025 students.

### Description of Program(s)

**Recruitment.** Special minority recruiter.

**Academic Support.** Some special scholarships and considerable tutoring support.

**Personal Counseling.** By minority student director and student counseling services.

**Summer Job Placement.** Through each college placement office.

### Contact Person(s):

George Jackson, Director
Beardshear Hall
Iowa State University
Ames, Iowa 50011
[515-294-6338]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | 1 | 1 | – |
| BLACKS | 36 | 13 | 8 | 3 | – |
| HISPANICS | 8 | 6 | 1 | 3 | – |
| WOMEN | 192 | 126 | 117 | 92 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 2 | 1 | – |
| BLACKS | 38 | 18 | 13 | 3 | – |
| HISPANICS | 12 | 7 | 1 | 2 | – |
| WOMEN | 176 | 129 | 138 | 127 | – |

# UNIVERSITY OF IOWA
# COLLEGE OF ENGINEERING
## Iowa City, Iowa 52242

The University has an enrollment of 26,500, while the College has about 1,200 undergraduates and 330 graduate students. The University is located adjacent to the business district of Iowa City, which has a population of about 50,000.

## Description of Program(s)

**Recruitment.** Blacks: The College of Engineering sponsored a club in the community of Cedar Rapids, Iowa, for junior and senior minority high school students who might have an aptitude in or interest for engineering. Women: Our student chapter of the Society for Women Engineers (SWE) sponsors a 2-day conference on campus each year to attract more women into engineering.

**Academic Support.** None, beyond what support is provided by our campus-wide programs for educationally disadvantaged.

**Personal Counseling.** Same as above.

**Summer Job Placement.** None

## Contact Person(s):

Mr. W.A. Davis
Office of Special Support Services
The University of Iowa
Iowa City, Iowa 52242
[319-353-6665]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT
By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | 1 | – |
| BLACKS | 2 | 3 | 3 | – | – |
| HISPANICS | – | – | 1 | 1 | – |
| WOMEN | 56 | 43 | 42 | 49 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | – | – | – |
| BLACKS | 1 | 4 | 2 | 2 | – |
| HISPANICS | – | – | – | 1 | – |
| WOMEN | 45 | 55 | 48 | 44 | – |

# KANSAS STATE UNIVERSITY
# COLLEGE OF ENGINEERING
## Manhattan, Kansas 66506

The Kansas State University College of Engineering is housed in four buildings on campus. The student-faculty ratio is about 25 to 1. Ninety-five percent of the faculty carry terminal degrees in their areas. College has 3,000 undergraduates in areas of Agricultural, Architectural, Chemical, Civil, Electrical, Industrial, Mechanical and Nuclear Engineering as well as a four-year technology program and Construction Science. All programs are ABET approved.

## Description of Program(s)

**Recruitment.** Travel to high schools, on-campus visitations, open house programs, high school competitions, JETS program, summer pre-college program.

**Academic Support.** Tutor-counseling in Minority Engineering Study Center, developmental reading, writing lab, math lab, study skills classes, early-warning system.

**Personal Counseling.** Minority Director or Study Center Coordinator handle counseling directly and/or refer students to minority program counselor.

**Summer Job Placement.** Students work through Campus Placement Center and Minority Program Director and prepare resume booklet for industry.

## Contact Person(s):

R. Cynthia Royce-Lartigue
College of Engineering
Kansas State University
Manhattan, KS 66506
[913-532-5592]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | 1 | – | – |
| BLACKS | 13 | 5 | 4 | 3 | – |
| HISPANICS | 11 | 3 | 4 | 13 | – |
| WOMEN | 96 | 60 | 34 | 69 | 6 |

By Class & Minority Group: Fall, 1982 (Enrolled)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 3 | – | 5 | – |
| BLACKS | 23 | 6 | 6 | 15 | – |
| HISPANICS | 5 | 6 | 9 | 17 | – |
| WOMEN | 113 | 74 | 54 | 77 | 7 |

# WICHITA STATE UNIVERSITY
# COLLEGE OF ENGINEERING
### Wichita, Kansas 67208

Located in an urban environment (city of Wichita); 17,000 EFT; over 20,000 actual count in the University; average age of student is 27 years. Most students hold jobs. The College of Engineering has 1,314 students, 11 percent women, approximately 5 American Indians, 40 Blacks, and 20 Hispanics. The College of Engineering is the smallest College in the University.

## Description of Program(s)

**Recruitment.** Brochures designed for minorities and women; offer NACME scholarships for minorities; a career workshop for high school women (as part of a University-wide workshop); a Women in Science & Engineering Project for older women.

**Academic Support.** Free tutoring for all engineering students; reentry, resume writing courses for older women.

**Personal Counseling.** The College of Engineering has a person designated as a counselor for all freshmen, but nothing special for minorities; Society of Women Engineers student chapter.

**Summer Job Placement.** None

## Contact Person(s):

Julie E. Gessler and Barbara E. Bowman
Co-Directors
College of Engineering
Wichita State University
Wichita, Kansas 67208
[316-689-3408]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | 1 | – |
| BLACKS | 25 | 5 | – | 3 | – |
| HISPANICS | 2 | 2 | 3 | – | – |
| WOMEN | 30 | 15 | 8 | 22 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 1 | – | – |
| BLACKS | 16 | 10 | 1 | 1 | – |
| HISPANICS | 4 | 1 | 2 | 1 | – |
| WOMEN | 29 | 15 | 12 | 16 | – |

# UNIVERSITY OF MINNESOTA
# SCHOOL OF ENGINEERING
## Minneapolis, Minnesota 55455

The Institute of Technology has 6,000 undergraduates and is part of the University of Minnesota with a total of 59,000 students. It is located in the Minneapolis-St. Paul area, a metropolitan area of 2 million people.

### Description of Program(s)

**Recruitment.** Recruiting is done mainly through the pre-college efforts. There are also Learning Resources Centers for minority groups that assist in the recruiting process.

**Academic Support.** Tutors are available five days per week and two evenings per week. There are special calculus sections. Academic counseling is available. Peer counseling is available. There are also seminar programs for high school women interested in technical careers. We also have a very active Society of Women Engineers student chapter.

**Personal Counseling.** As requested.

**Summer Job Placement.** Students are assisted in finding summer internships that are directly related to their field of study. This service is provided on a request basis.

### Contact Person(s):

Don L. Birmingham
Director, Minority Affairs IT
105 Lind Hall
207 Church Street S.E.
Minneapolis, Minnesota 55455
[612-373-2673]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | 2 | 2 | – |
| BLACKS | 5 | 8 | 11 | 8 | – |
| HISPANICS | 7 | 3 | 7 | 6 | – |
| WOMEN | 133 | 134 | 150 | 177 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | 2 | 2 | – |
| BLACKS | 8 | 4 | 10 | 12 | – |
| HISPANICS | 6 | 6 | 3 | 8 | – |
| WOMEN | 120 | 149 | 159 | 204 | – |

# UNIVERSITY OF MISSOURI - COLUMBIA
# COLLEGE OF ENGINEERING
## Columbia, Missouri 65211

Located in Columbia, Missouri (population approximately 60,000; 120 miles from St. Louis and Kansas City). Campus enrollment is approximately 23,000; engineering enrollment approximately 2,500 (minority enrollment is approximately four percent and women enrollment is approximately thirteen percent.

## Description of Program(s)

**Recruitment.** 1) High School visits. 2) Outstanding high school students are brought to campus. 3) Mailings to high schools. 4) Scholarships are awarded to outstanding high school students enrolling in engineering.

**Academic Support.** The College of Engineering operates a tutoring program which is under the direction of the Director of the Minority Engineering Program. There is also a Society of Black Engineers and Society of Women Engineers.

**Personal Counseling.** Minority engineering students are advised by faculty members that are members of a Minority Engineering Task Force.

**Summer Job Placement.** Handled through college placement office.

## Contact Person(s):

Professor Jay B. McGarraugh
University of Missouri-Columbia
1040 Engineering Building
Columbia, Missouri 65211
[314-882-4688]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 4 | – | – | 2 | – |
| BLACKS | 51 | 17 | 16 | 12 | – |
| HISPANICS | 8 | 4 | 3 | 5 | – |
| WOMEN | 120 | 82 | 71 | 78 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 4 | – | – | – |
| BLACKS | 37 | 35 | 12 | 12 | – |
| HISPANICS | 7 | 3 | 5 | 7 | – |
| WOMEN | 105 | 95 | 76 | 97 | – |

# UNIVERSITY OF MISSOURI - ROLLA SCHOOL OF ENGINEERING

## Rolla, Missouri 65401

The University of Missouri-Rolla is centrally located in Missouri - 100 miles west of St. Louis. UMR is one of four campuses of the University of Missouri and was founded in 1870 as the U of M School of Mines and Metallurgy. Today the University specializes in engineering and science. The campus has a student population of 6,100 students of which 5,400 are engineering students.

## Description of Program(s)

**Recruitment.** High school visits with emphasis on pursuing an engineering education; workshops for high school teachers and counselors; exchange programs with university faculty and high school math and science teachers; group visits to the campus; participation in regular university programs such as University Day, Parents' Day, etc.

**Academic Support.** Counseling Services; Tutorial Services at no cost to the student; plant visits; early warning system; study skills workshops; pre-engineering seven-week summer enrichment program.

**Personal Counseling.** Personal counseling is normally provided by the Minority Engineering Program counseling staff; counseling services are also available through the Counseling and Testing Center.

**Summer Job Placement.** Students are encouraged to make use of both the Career Placement and the Cooperative Education Center. Students are assisted in identifying possible summer/co-op employment with industrial supporters of the Minority Engineering Program and various federal agencies.

## Contact Person(s):

W. Floyd Harris
302 Rolla Building
University of Missouri-Rolla
Rolla, Missouri 65401
[314-341-4212]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 4 | 3 | – |
| BLACKS | 57 | 40 | 37 | 41 | – |
| HISPANICS | 18 | 13 | 9 | 11 | – |
| WOMEN | 234 | 173 | 154 | 164 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 4 | 1 | 1 | 4 | – |
| BLACKS | 65 | 34 | 36 | 39 | – |
| HISPANICS | 19 | 19 | 15 | 11 | – |
| WOMEN | 202 | 205 | 177 | 199 | – |

# UNIVERSITY OF NEBRASKA - LINCOLN
# COLLEGE OF ENGINEERING AND TECHNOLOGY
## Lincoln, Nebraska 68588

The College of Engineering and Technology spans two campuses (Omaha and Lincoln) of the University of Nebraska. It has 3,600 undergraduates and 300 graduate students. All engineering and technology programs are accredited by ABET.

## Description of Program(s)

**Recruitment.** Provide career programs for junior and senior high school students.

**Academic Support.** Special help is arranged on request.

**Personal Counseling.** Personal counseling is provided. Minority Engineers Club has been formed.

**Summer Job Placement.** N/A

## Contact Person(s):

Michael Tibbs
110H Engineering Building
University of Nebraska - Omaha
Omaha, Nebraska 68182
[402-554-3274]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | – | – | – |
| BLACKS | 12 | 2 | 4 | 1 | |
| HISPANICS | 7 | 1 | 1 | 3 | – |
| WOMEN | 82 | 40 | 36 | 33 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | – | – | – |
| BLACKS | 13 | 2 | 2 | 4 | – |
| HISPANICS | 7 | 1 | 1 | 2 | – |
| WOMEN | 82 | 39 | 27 | 35 | – |

# UNIVERSITY OF DELAWARE SCHOOL OF ENGINEERING

### Newark, Delaware 19711

There are more than 13,000 undergraduates within the entire University. In addition, there are approximately 2,000 graduate students and 3,000 part-time students. The main campus of the University is in Newark, a surburban community of about 26,000 situated approximately midway between Philadelphia and Baltimore and 14 miles from Wilmington.

## Description of Program(s)

**Recruitment.** The Minority Engineering Program actively recruits Black, Hispanics, and American Indians each year. Generous scholarships are offered to these groups.

**Academic Support.** The Minority Engineering Program also offers financial support for tutoring, summer and winter semesters.

**Personal Counseling.** Students meet with the Director of the Minority Engineering Program twice a month for personal counseling.

**Summer Job Placement.** When possible, the Minority Engineering Program tries to place students into summer positions in industry.

## Contact Person(s):

Dr. Jon H. Olson
137 DuPont Hall
University of Delaware
Newark, Delaware 19711
[302-738-2401]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | 1 | – |
| BLACKS | 14 | 14 | 15 | 19 | – |
| HISPANICS | 2 | 1 | 2 | 4 | – |
| WOMEN | 49 | 56 | 81 | 78 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 17 | 13 | 10 | 21 | – |
| HISPANICS | 3 | 1 | 1 | 4 | – |
| WOMEN | 105 | 33 | 63 | 99 | – |

# GEORGE WASHINGTON UNIVERSITY
# SCHOOL OF ENGINEERING AND APPLIED SCIENCE
### Washington, D.C. 20052

George Washington University is a private, co-educational, non-denominational, urban institution located in the heart of Washington, D.C. Total undergraduate enrollment is 6,000, 1,000 of whom are undergraduate engineers. Graduate program enrollment is 12,000, 1,600 of whom are graduate engineers.

## Description of Program(s)

**Recruitment.** Special publications were developed and published for Black, Hispanic and women interested in engineering. Recruitment is also accomplished through career talks on engineering fields at local high schools.

**Academic Support.** Free tutorial services available to students in technical subjects during the freshman and sophomore years.

**Personal Counseling.** Personal counseling is available to all students through an appointed counselor from the Assistant Dean's Office and a counseling office is available on campus.

**Summer Job Placement.** Co-op program in effect.

## Contact Person(s):

George W. M. Brown
School of Engineering and Applied Science
George Washington University
Washington, D.C. 20052
[202-676-6158]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 15 | 16 | 9 | 13 | – |
| HISPANICS | 4 | 3 | 3 | 2 | – |
| WOMEN | 37 | 41 | 29 | 24 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 14 | 19 | 16 | 15 | – |
| HISPANICS | 5 | 4 | 3 | 3 | – |
| WOMEN | 45 | 42 | 41 | 32 | – |

# FLORIDA ATLANTIC UNIVERSITY
# COLLEGE OF ENGINEERING
## Boca Raton, Florida 33431

Florida Atlantic University, located in Boca Raton, Florida (a community near Orlando, Florida) has an enrollment of approximately 8,000 students and is dedicated to high quality education at the upper division and graduate levels.

## Description of Program(s)

**Recruitment.** No Special Program.

**Academic Support.** Provided scholarship for one summer semester in fields of Engineering and Public Administration to students chosen on the basis of academic record. Ten students were chosen for Public Administration and one for Engineering curriculum.

**Personal Counseling.** No Special Program.

**Summer Job Placement.** No Special Program.

## Contact Person(s):

Dr. Leonard Kooperman
Department of Public Administration
Florida Atlantic University
Boca Raton, Florida 33431
[305-393-3679]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | 5 | 4 | – |
| HISPANICS | – | – | 19 | 20 | – |
| WOMEN | – | – | 30 | 26 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | 5 | – |
| HISPANICS | – | – | 16 | 19 | – |
| WOMEN | – | – | 29 | 29 | – |

# UNIVERSITY OF CENTRAL FLORIDA
## COLLEGE OF ENGINEERING
**Orlando, Florida 32816**

The University of Central Florida is a state institution with a Fall 1981 enrollment of 13,093. The College of Engineering had a Fall 1981 enrollment of 2,175 including 216 graduate students. The College offers degrees through Ph.D.

### Description of Program(s)

**Recruitment.** The College is a member of the Southeastern Consortium for Minorities in Engineering which supports pre-college programs and has awarded a total of 27 NACME fellowships during the last two years. UCF Office of Minority Student Services has an on-going program of Minority recruitment.

**Academic Support.** Office of Minority Student Services provides tutoring and academic counseling.

**Personal Counseling.** Provided by the Office of Minority Student Services.

**Summer Job Placement.** Not Provided.

### Contact Person(s):

Dr. Bruce E. Mathews
College of Engineering
University of Central Florida
Orlando, Florida 32816
[305-275-2156]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT
By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 21 | 4 | 15 | 9 | – |
| HISPANICS | 27 | 7 | 19 | 19 | – |
| WOMEN | 72 | 34 | 69 | 62 | – |

By Class & Minority Group: Fall, 1982 (Actual)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 18 | 11 | 7 | 9 | – |
| HISPANICS | 19 | 10 | 21 | 25 | – |
| WOMEN | 60 | 49 | 70 | 91 | – |

# GEORGIA INSTITUTE OF TECHNOLOGY
# COLLEGE OF ENGINEERING
## Atlanta, Georgia 30332

State-controlled technological institution with major emphasis on Engineering, Architecture, Science and Management. Approximately 11,250 students, located near downtown Atlanta, Georgia.

## Description of Program(s)

**Recruitment.** College fairs, Engineering College nights, indirect contact with students targeted from College Board student search, contact with high school students through the Minority Introduction to Engineering (MITE) Program.

**Academic Support.** Tutorial service, close monitoring of academic progress of students, academic advisement, support programs provided by the Society of Black Engineers, peer counseling.

**Personal Counseling.** Personal, financial, emotional and career planning.

**Summer Job Placement.** Coordinate scholarships/internships with industry, campus coordinator for Summer Engineering Employment (SEEP) Program (NACME).

## Contact Person(s):

Mrs. Carolyn Cannon
Engineering College
Georgia Institute of Technology
Atlanta, Georgia 30332
[404-894-3354]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 2 | 1 | 1 | – |
| BLACKS | 96 | 108 | 137 | 87 | – |
| HISPANICS | 29 | 16 | 21 | 21 | – |
| WOMEN | 285 | 277 | 290 | 267 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 2 | 1 | – |
| BLACKS | 137 | 70 | 130 | 87 | – |
| HISPANICS | 19 | 32 | 14 | 28 | – |
| WOMEN | 294 | 274 | 281 | 297 | – |

# THE JOHNS HOPKINS UNIVERSITY SCHOOL OF ENGINEERING

## Baltimore, Maryland 21218

The G.W.C. Whiting School of Engineering of the Johns Hopkins University offers undergraduate engineering programs which prepare students to enter the engineering profession or to continue their education at the graduate level. Programs leading to the Bachelor of Engineering Science are offered in Biomedical, Chemical, and Civil Engineering, Electrical Engineering and Computer Science, Materials Science and Engineering, Mechanics, and Mathematical Sciences. Three of these programs are accredited by the Accreditation Board for Engineering and Technology (ABET), and two more are now under review by ABET. Enrollment in the Engineering School for 1982-83 is approximately 525 undergraduate students, and the student/faculty ratio is under 10:1.

Johns Hopkins is known as a research university. All of the faculty maintain active research programs which contribute directly to the quality of the undergraduate programs.

### Description of Program(s)

**Recruitment.** This is the only category where special efforts are directed towards minority groups. Outreach activities using student-to-student contact are emphasized, and there are workshops and other special programs planned for accepted students to visit campus. Certain scholarship assistance is available to minorities.

**Academic Support.** Johns Hopkins provides extensive academic counseling services to all students, regardless of sex or race. Each student receives a student advisor in the freshman year, a faculty advisor for four years, and has access at all times to the Office of Advising and Counseling. Remedial courses are not offered in any subject.

**Personal Counseling.** Again, extensive support services are freely available to all students. The counseling center provides private and group therapy. There are numerous group counseling sessions particularly for women and minority students.

**Summer Job Placement.** The services of the Placement Office include making summer job opportunities known to undergraduates, and providing advice on resume writing and interviewing. The Director of Placement is very accessible to any interested student.

### Contact Person(s):

Mr. Jerome D. Schnydman, Director of Admissions
or
Ms. Rachel Hendrickson, Assistant Director
The Johns Hopkins University
Garland Hall 140
Chas. and 34th Streets
Baltimore, Maryland 21218
[301-338-8171]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | 1 | – |
| BLACKS | 6 | 8 | 2 | 1 | – |
| HISPANICS | 1 | – | 4 | 1 | – |
| WOMEN | 30 | 26 | 20 | 15 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 1 | – | – |
| BLACKS | 8 | 4 | 5 | 3 | – |
| HISPANICS | 2 | 1 | – | 4 | – |
| WOMEN | 24 | 29 | 31 | 25 | – |

# U.S. NAVAL ACADEMY SCHOOL OF ENGINEERING

## Annapolis, Maryland 21402

Military Academy, 4,600 midshipmen. Majors are offered in Aerospace, Electrical, Marine, Mechanical, Ocean, and Systems Engineering; Naval Architecture; Chemistry, Physics, Mathematics, Oceanography, Physical Science, Applied Science and General Engineering; Political Science, Economics, English and History. Current Navy requirements dictate that at least 80 percent of the midshipmen undertake engineering, science, or mathematics majors.

### Description of Program(s)

**Recruitment.** The Naval Academy has four minority admission counselors at the Academy full time. They provide extensive assistance to applicants during their junior and senior years.

**Academic Support.** 1) All freshmen are given a studies skill course. 2) Extra instruction is available each day from the student's professor. (No graduate assistants are used) 3) We use our midshipmen's Black Studies Club to provide informal counseling and tutoring.

**Personal Counseling.** The minority admissions counselors provide a great deal of personal counseling.

**Summer Job Placement.** N/A. Midshipmen study at the Academy all year.

### Contact Person(s):

Lt. James T. Jackson, Jr.
Minority Admission Counselor, U.S. Naval Academy
Annapolis, Maryland 21402
[800-638-9156]

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**FULL-TME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 3 | – | – | – |
| BLACKS | – | 16 | 10 | 8 | – |
| HISPANICS | – | 25 | 13 | 8 | – |
| WOMEN | – | 23 | 12 | 14 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 3 | – | – |
| BLACKS | – | 18 | 10 | 13 | – |
| HISPANICS | – | 17 | 19 | 10 | – |
| WOMEN | 21 | 19 | 17 | 10 | – |

# UNIVERSITY OF MARYLAND
# COLLEGE OF ENGINEERING
## College Park, Maryland 20742

The University of Maryland is about 10 miles north of Washington, D.C. Total enrollment, graduate and undergraduate, exceeds 30,000. The undergraduate enrollment in the College of Engineering, however, is less than 4,000.

## Description of Program(s)

**Recruitment.** We make visits to junior and senior high schools and large minority populations. We participate in the activities of the Engineering Pipeline, a network of Baltimore City School clubs with industrial sponsors, and METCON, a similar Washington, D.C. organization. We receive, thanks to NACME, mailing lists from ETS which are used to contact prospective students. NACME also provides scholarship funds.

**Academic Support.** We have a tutorial program managed by our Center for Minorities in Science and Engineering. We use upper classmen and graduate students as paid tutors to assist in both one-on-one and group tutoring situations.

**Personal Counseling.** The Center for Minorities in Science and Engineering offers personal counseling to all minority undergraduates. The counseling runs the gamut from course selection and scheduling advice, time management assistance and help with personal concerns.

**Summer Job Placement.** N/A

## Contact Person(s):

James N. Newton
Center for Minorities in Science and Engineering
College of Engineering
University of Maryland
College Park, Maryland 20742
[301-454-7219]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 3 | 4 | 4 | – |
| BLACKS | 59 | 36 | 30 | 36 | 13 |
| HISPANICS | 14 | 12 | 23 | 16 | 2 |
| WOMEN | 122 | 102 | 99 | 142 | 27 |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | 2 | 4 | – |
| BLACKS | 80 | 26 | 31 | 36 | 17 |
| HISPANICS | 20 | 8 | 12 | 23 | 1 |
| WOMEN | 129 | 96 | 96 | 138 | 212 |

# DUKE UNIVERSITY SCHOOL OF ENGINEERING

### Durham, North Carolina 27706

Private school in Durham, North Carolina, a city of 100,000 with undergraduate enrollment fixed at 5,700. The School of Engineering has a fixed enrollment of 850, 25 percent women, 7 percent minorities. BSE, MS and PhD degrees are offered in biomedical engineering, civil and environmental engineering, electrical engineering, and mechanical engineering and materials science.

## Description of Program(s)

**Recruitment.** No special programs.

**Academic Support.** No special programs.

**Personal Counseling.** No special programs.

**Summer Job Placement.** No special programs.

## Contact Person(s):

Dr. Marion L. Shepard
Professor of Materials Science and Associate Dean
Duke University, 136 Engineering
School of Engineering
Durham, North Carolina 27706
[919-684-2214]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 6 | 7 | 5 | 6 | – |
| HISPANICS | 1 | 2 | – | 3 | – |
| WOMEN | 50 | 61 | 48 | 51 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 7 | 5 | 6 | 5 | – |
| HISPANICS | 1 | 1 | 2 | – | – |
| WOMEN | 47 | 61 | 63 | 52 | – |

# NORTH CAROLINA A&T STATE UNIVERSITY
# SCHOOL OF ENGINEERING
## Greensboro, North Carolina 27411

The School of Engineering enrolled over 1,100 students at the undergraduate level for the Fall semester 1981-82, of which 72 percent were American Black. Our four ABET accredited undergraduate programs are Architectural Engineering, Electrical Engineering, Industrial Engineering and Mechanical Engineering. The School is in Greensboro, North Carolina, the largest metropolitan area in North Carolina.

## Description of Program(s)

**Recruitment.** We stress special scholarships made available by a variety of benefactors including National Action Council for Minorities in Engineering, Inc., R.J. Reynolds and other foundations and industries. Some are for new freshmen while others require a one semester or longer trial period to establish grade point performance.

**Academic Support.** Tutoring and special courses are available generally through the Counseling Center and on a volunteer basis via upperclassmen through out student engineering chapters such as IEEE, ASME, and others.

**Personal Counseling.** Personal counseling is available from the Counseling Center on personal problems and as a result of voluntary standardized testing. First-line academic counseling is through the assigned departmental academic advisor or chairman.

**Summer Job Placement.** Job information on summer and co-op opportunities are available through the Co-op Office, engineering administration and department chairman.

## Contact Person(s):

Office of the Associate Dean and
Lewis Bain, Assistant to the Dean for Special Programs
School of Engineering
North Carolina A&T State University
Greensboro, North Carolina 27411
[919-379-7549]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT
### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 364 | 133 | 95 | 81 | 14* |
| HISPANICS | – | – | – | – | – |
| WOMEN | 95 | 23 | 26 | 17 | 3* |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 363 | 164 | 108 | 90 | 3* |
| HISPANICS | 1 | 1 | – | – | – |
| WOMEN | 107 | 54 | 24 | 17 | – |

*Architectural Engineering Only

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# NORTH CAROLINA STATE UNIVERSITY SCHOOL OF ENGINEERING

### Raleigh, North Carolina 27650

North Carolina State University, located in Raleigh, North Carolina, a city of approximately 150,000, has an enrollment of 21,225 graduate and undergraduate students. The North Carolina State School of Engineering has approximately 5,800 undergraduate students and 700 graduate students. Female enrollment in engineering is approximately 16 percent and minority enrollment is approximately 7 percent.

## Description of Program(s)

**Recruitment.** 1) Special one-week summer programs attract approximately 400 high school students per year, of which approximately 45 percent are minorities, 2) the County Accented Minority Engineering Recruitment Action (CAMERA) is presented in approximately 60 high schools each year. Attendance is about 100 students at each session, and minorities average 35 of those students attending.

**Academic Support.** 1) The Summer Transitional Program provides scholarships to allow incoming freshmen minorities, and others, to enter the University in second summer session, and to receive special one-on-one tutoring. 2) The Academic Support and Achievement Program (ASAP) and special diagnostic testing provides problem sessions and small-group tutoring in all freshman and beginning sophomore level courses. Both programs are funded by R.J. Reynolds Industries, Inc.

**Personal Counseling.** Available through the Student Affairs Division of the University.

**Summer Job Placement.** Available through University Placement Center.

## Contact Person(s):

Prof. George F. Bland, Asst. Dean
School of Engineering
North Carolina State University
Raleigh, North Carolina 27650
[919-737-3693]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 5 | 4 | 5 | 1 | – |
| BLACKS | 117 | 98 | 69 | 37 | – |
| HISPANICS | 10 | 9 | 13 | 8 | – |
| WOMEN | 237 | 225 | 150 | 131 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 10 | 3 | 2 | 2 | – |
| BLACKS | 118 | 89 | 85 | 76 | – |
| HISPANICS | 7 | 9 | 9 | 13 | – |
| WOMEN | 260 | 239 | 198 | 159 | – |

# UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE SCHOOL OF ENGINEERING

### Charlotte, North Carolina 28223

The University of North Carolina at Charlotte has an enrollment of 10,000 students with 1,300 students enrolled in the School of Engineering which offers BSE, BET, MSE degrees.

## Description of Program(s)

**Recruitment.** Junior high school visitations. Special summer programs.

**Academic Support.** Tutoring, special advising.

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

## Contact Person(s):

Dr. Jack B. Evett
College of Engineering
University of North Carolina at Charlotte
Charlotte, North Carolina 28223
[704-597-2301]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | – | 1 | – |
| BLACKS | 8 | 14 | 15 | 2 | – |
| HISPANICS | 2 | – | 1 | – | – |
| WOMEN | 30 | 26 | 16 | 12 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | – | – |
| BLACKS | 19 | 6 | 9 | 9 | – |
| HISPANICS | 2 | 2 | – | 1 | – |
| WOMEN | 29 | 28 | 20 | 16 | – |

# CLEMSON UNIVERSITY
# COLLEGE OF ENGINEERING
## Clemson, South Carolina 29631

Land-grant university located in Clemson, South Carolina, midway between Atlanta, Georgia and Charlotte, North Carolina. Total on-campus enrollment is approximately 11,000; 3,030 on-campus students in the College of Engineering which is the largest academic unit. Engineering programs are offered in nine undergraduate and twelve graduate fields.

### Description of Program(s)

**Recruitment.** Industry sponsored Summer Engineering Minority Program stimulates interest in engineering among academically outstanding minority students. The two consecutive pre-junior and pre-senior summers are devoted to an introduction to engineering, communications skills, and role model identification to enhance awareness of engineering as a career path.

**Academic Support.** Communications skills and chemistry workshops during pre-senior high school summer for advanced class. Tutoring available for all engineering students, sponsored by Tau Beta Pi.

**Personal Counseling.** Dr. R.W. Snelsire, among others, counsels minority students enrolled in engineering. Society of Black Engineers, Student Chapter, also serves as a peer reinforcement mechanism.

**Summer Job Placement.** Summer job placement is available through the placement office. Also, special contact with industries on occasion, upon student request.

### Contact Person(s):

Dr. R.W. Snelsire
Department of Electrical & Computer Engineering
Clemson University
Clemson, South Carolina 29631
[803-656-3376]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT
By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 47 | 21 | 15 | 4 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 166 | 98 | 73 | 49 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 33 | 28 | 18 | 14 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 129 | 125 | 94 | 77 | 1 |

# OLD DOMINION UNIVERSITY SCHOOL OF ENGINEERING

## Norfolk, Virginia 23508

A state-supported university located in eastern Virginia, with a total enrollment of 15,000 students; 1,650 are enrolled in engineering curricula.

## Description of Program(s)

**Recruitment.** Academic Opportunity Program recruits disadvantaged youth for provisional admission to the University. They receive special guidance and academic counseling.

**Academic Support.** Special services for disadvantaged students (tutoring). Currently, nearly 100 engineering students receive assistance.

**Personal Counseling.** No special programs.

**Summer Job Placement.** No special programs.

## Contact Person(s):

Andrea Schollaert, Director
Special Services
Old Dominion University
Norfolk, Virginia 23508
[804-440-3582]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | 1 | 1 | – |
| BLACKS | 18 | 13 | 8 | 7 | – |
| HISPANICS | 1 | – | 1 | 3 | – |
| WOMEN | 46 | 19 | 19 | 22 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 2 | – | 1 | – |
| BLACKS | 23 | 7 | 16 | 5 | – |
| HISPANICS | 2 | 1 | – | 1 | – |
| WOMEN | 45 | 28 | 15 | 22 | – |

# WEST VIRGINIA UNIVERSITY
# COLLEGE OF ENGINEERING
## Morgantown, West Virginia 26506

West Virginia University, located in Morgantown, West Virginia, a city of 50,000, nearly 70 miles south of Pittsburgh, has an enrollment of over 20,000 students. The College of Engineering has 2,000 undergraduate students and 300 graduate students, 93 faculty members in the College.

## Description of Program(s)

**Recruitment.** We have some minority scholarships. The College has a Society of Women Engineers Chapter and the 1982 Freshman class is 25 percent women.

**Academic Support.** No special programs.

**Personal Counseling.** No special programs.

**Summer Job Placement.** No special programs.

## Contact Person(s):

G.L. Blackshaw
125 Engineering Sciences Building
West Virginia University
Morgantown, West Virginia 26506
[304-293-4821]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | — | — | — | — | — |
| BLACKS | 7 | 4 | 4 | 2 | — |
| HISPANICS | — | — | 3 | 1 | — |
| WOMEN | 76 | 63 | 56 | 76 | — |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | — | — | — | — | — |
| BLACKS | 6 | 9 | 2 | 2 | — |
| HISPANICS | — | — | — | 3 | — |
| WOMEN | 78 | 66 | 57 | 70 | — |

# AUBURN UNIVERSITY
# SCHOOL OF ENGINEERING
## Auburn, Alabama 36830

Auburn University is a land grant university located in Auburn, Alabama, a city of 20,000, approximately 60 miles east of Montgomery, Alabama. Auburn University has an enrollment of 19,000 students.

### Description of Program(s)

**Recruitment.** MITE Program.

**Academic Support.** N/A

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

### Contact Person(s):

J.O. Nichols
Director, Minority Engineering Programs
Auburn University
Auburn, Alabama 36830
[205-826-4874]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 5 | 1 | – | – | – |
| BLACKS | 25 | 28 | 9 | 9 | – |
| HISPANICS | 6 | 6 | 4 | 1 | – |
| WOMEN | 275 | 186 | 96 | 101 | 1 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 4 | 2 | 1 | – | – |
| BLACKS | 27 | 23 | 11 | 10 | – |
| HISPANICS | 6 | 6 | 5 | 4 | – |
| WOMEN | 193 | 299 | 110 | 134 | – |

# UNIVERSITY OF ALABAMA IN BIRMINGHAM SCHOOL OF ENGINEERING

## Birmingham, Alabama 35295

The University of Alabama in Birmingham (enrollment exceeding 14,000) has six liberal arts and professional schools within the University, five health professional schools and graduate programs serving all major units.

## Description of Program(s)

**Recruitment.** High school and junior college visitations, slide presentations, Counselors Day and brochures.

**Academic Support.** Tutoring sessions, special counseling and advisory sessions.

**Personal Counseling.** Academic advisement, one-to-one counseling.

**Summer Job Placement.** NACME information on summer jobs.

## Contact Person(s):

M. Von Stehens, Ph.D.
Director, Minority Engineering Program
UAB University Station
Birmingham, Alabama 35294
[205-934-5406]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 1 | 2 | 4 | – |
| BLACKS | 81 | 61 | 31 | 42 | 1 |
| HISPANICS | 2 | 3 | 2 | 1 | – |
| WOMEN | 102 | 83 | 38 | 80 | 3 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | 1 | 2 | – |
| BLACKS | 88 | 45 | 47 | 36 | – |
| HISPANICS | 3 | 1 | 3 | 2 | – |
| WOMEN | 95 | 73 | 87 | 47 | – |

# UNIVERSITY OF SOUTH ALABAMA COLLEGE OF ENGINEERING

## Mobile, Alabama 36688

The University of South Alabama College of Engineering has an enrollment of 995 (Fall, 1981) students. The College of Engineering consists of three buildings (including a 40,000-square-foot Laboratory Building), four departments (Chemical Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering), 17 faculty, and two administrators.

### Description of Program(s)

**Recruitment.** Members of Student Chapter of Pi Sigma Pi, a recently formed minority service organization, will do some recruiting of minorities in high school into engineering.

**Academic Support.** Pi Sigma Pi members will tutor minority students and conduct academic workshops. A summer program for minority high school students will be inaugurated in the summer of 83: "The World of Engineering."

**Personal Counseling.** Members of Pi Sigma Pi will counsel and provide role models for minority students.

**Summer Job Placement.** None as yet - may come later. Currently using University Placement Office.

### Contact Person(s):

Dr. Harold V. Rodriguez
Dean, College of Engineering
108 EGCB - University of South Alabama
Mobile, Alabama 36688
[205-460-6140]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 34 | 13 | 10 | 4 | – |
| HISPANICS | – | – | 1 | 1 | – |
| WOMEN | 48 | 20 | 11 | 24 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 25 | 17 | 13 | 8 | – |
| HISPANICS | – | – | – | 1 | – |
| WOMEN | 41 | 28 | 20 | 11 | – |

# SPEED SCIENTIFIC SCHOOL, UNIVERSITY OF LOUISVILLE SCHOOL OF ENGINEERING

## Louisville, Kentucky 40292

Engineering college founded in 1924; total enrollment of 2,000; University of Louisville total enrollment of 20,000. Degree programs in Chemical, Civil, Electrical, Mechanical, and Industrial Engineering in Applied Mathematics & Computer Science. Mandatory cooperative internship program, five years, leads to Master of Engineering degree.

### Description of Program(s)

**Recruitment.** National literature is made available to prospective students. Black Engineers and Technician Association and Society of Women Engineers chapters assist in recruitment. Special scholarship funds are available for recruitment of minorities.

**Academic Support.** No special courses. The Minority Affairs Office of the University of Louisville operates a tutoring service for all eligible students, regardless of race or sex. The engineering college has no tutoring service.

**Personal Counseling.** Blacks: Accomplished through BETA (Black Engineers and Technicians Association) chapter and faculty advisor, Professor Brenda H. McAnulty. Women: Accomplished through SWE (Society of Women Engineers) student chapter and faculty advisor, Professor Faye Collett.

**Summer Job Placement.** Engineering programs include 3 semesters of mandatory cooperative internship in industry, therefore, all students participate in one year of work experience.

### Contact Person(s):

Donald L. Cole, Assistant Dean of Academic Services
Speed Scientific School
University of Louisville
Louisville, Kentucky 40292
[502-588-6194]

FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 5 | 11 | 8 | 2 | – |
| HISPANICS | 3 | 2 | 1 | – | – |
| WOMEN | 74 | 45 | 51 | 22 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 10 | 3 | 12 | 7 | – |
| HISPANICS | 3 | 2 | 1 | 1 | – |
| WOMEN | 64 | 57 | 46 | 44 | – |

# UNIVERSITY OF KENTUCKY
# COLLEGE OF ENGINEERING
## Lexington, Kentucky 40506

The University of Kentucky, located in Lexington, Kentucky (a city of 200,000, approximately 90 miles south of Cincinnati), has 17 academic colleges, a medical center and over 142 major buildings. The College has an enrollment of 23,000 students on the main campus and 21,900 community college students.

## Description of Program(s)

**Recruitment.** Office of Minority Recruitment under the Vice President for Minority Affairs. The College of Engineering actively recruits minority students.

**Academic Support.** Tutoring is free of charge to minority students, a service of the Office of Minority Learning Programs. The College of Engineering has a Pre-Enrollment Program for engineering minority students. Reading, study skills, mathematics programs for minority students by Office of Minority Learning Programs.

**Personal Counseling.** University Counseling Center and the University Medical Center provides counseling for all students. The Office of Minority Affairs provides counseling for minority students.

**Summer Job Placement.** University Placement Office lists summer jobs. College of Engineering actively looks for summer jobs for minority engineering students. College of Engineering has a Co-op Program for students.

## Contact Person(s):

Dr. Ralph R. Huffsey
762 Anderson Hall
College of Engineering
University of Kentucky
Lexington, Kentucky 40506
[606-257-1832 or 257-1687]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 2 | 1 | 3 | – |
| BLACKS | 18 | 6 | 7 | 11 | – |
| HISPANICS | 1 | – | 2 | – | – |
| WOMEN | 61 | 41 | 50 | 80 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 3 | 2 | 1 | – |
| BLACKS | 16 | 18 | 6 | 7 | – |
| HISPANICS | – | 1 | – | 2 | – |
| WOMEN | 53 | 61 | 41 | 50 | – |

# MEMPHIS STATE UNIVERSITY
# HERFF COLLEGE OF ENGINEERING
## Memphis, Tennessee 38152

Herff College of Engineering at Memphis State University (total enrollment of approximately 10,000 full-time and 5,000 part-time students) is a medium small engineering college including a four-year engineering curriculum. Urban center with about 50 percent Black population in the city.

### Description of Program(s)

**Recruitment.** Minority scholarships. JETS Clubs. SECME activities.

**Academic Support.** N/A

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

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### Contact Person(s):

Roger E. Nolte
Memphis State University
Herff College of Engineering
Southern Avenue
Memphis, Tennessee 38152
[901-454-2175]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 57 | 33 | 26 | 21 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 54 | 43 | 32 | 39 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 45 | 48 | 21 | 31 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 45 | 49 | 44 | 41 | – |

# TENNESSEE TECHNOLOGICAL UNIVERSITY SCHOOL OF ENGINEERING

## Cookeville, Tennessee 38501

Located in Cookeville, Tennessee, a city of approximately 20,000, with easy access to the major cities of Nashville and Knoxville, Tennessee. The enrollment is approximately 8,000 undergraduate and graduate students.

### Description of Program(s)

**Recruitment.** We have hired an admissions counselor to recruit and work with the retention of minority students.

**Academic Support.** Tutoring available for all students.

**Personal Counseling.** Available for all students.

**Summer Job Placement.** Available for all students - includes interviews set up for visiting companies, a placement library, and up-to-date information for students on job leads.

### Contact Person(s):

Dr. James C. Perry
Director of Admissions
Tennessee Technological University
Box #5006
Cookeville, Tennessee 38501
[615-528-3317]

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**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 1 | – | – | – |
| BLACKS | 17 | 21 | 6 | 6 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 84 | 65 | 53 | 67 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 1 | – | – |
| BLACKS | 29 | 8 | 12 | 7 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 83 | 66 | 57 | 65 | – |

# UNIVERSITY OF TENNESSEE-KNOXVILLE COLLEGE OF ENGINEERING

## Knoxville, Tennessee 37916

The University of Tennessee, located in Knoxville, Tennessee, has a total student enrollment of approximately 28,000. The College of Engineering has an enrollment of approximately 4,000 students, seven (7) engineering departments.

### Description of Program(s)

**Recruitment.** Recruit throughout year, primarily in Southeast. Two full time staff members are involved in recruiting.

**Academic Support.** Tutoring available for all students in engineering. Students in our Minority Engineering Scholarship Program receive two week "on campus" review classes prior to beginning Freshman year in math, chemistry, English and graphics.

**Personal Counseling.** Available by college staff and University Counseling Service.

**Summer Job Placement.** Our program is a co-op program with industry.

### Contact Person(s):

Fred D. Brown, Jr.
The University of Tenneseee
The College of Engineering
103 Estabrook Hall
Knoxville, Tenneseee 37966
[615-974-4457]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | – | – |
| BLACKS[1] | 125 | 49 | 48 | 29 | 8 |
| HISPANICS[1] | 5 | 1 | 2 | – | 1 |
| WOMEN[1] | 172 | 73 | 76 | 62 | 24 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 1 | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | – | – | – | – | – |

[1] 1980 Data

# VANDERBILT UNIVERSITY SCHOOL OF ENGINEERING

## Nashville, Tennessee 37218

Vanderbilt University is located in Nashville, the capital of Tennessee. Vanderbilt's School of Engineering has 1,000 undergraduate students, 245 graduate students and 80 faculty members. There is an excellent student to faculty ratio. Curricula is broad based. Highly competitive student body that represents the top 3 percent of the respective graduating classes.

## Description of Program(s)

**Recruitment.** Pre-Engineering Research Program for high ability high school students who have strong interest in engineering. Program runs eight weeks during each summer.

**Academic Support.** N/A

**Personal Counseling.** N/A

**Summer Job Placement.** Minority Director works with Campus Placement Office and occasionally directly with industry to place students.

## Contact Person(s):

William L. Mills
Box 6156 Station B
Vanderbilt University
Nashville, Tenneseee 37235
[615-322-2724]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 26 | 24 | 29 | 28 | – |
| HISPANICS | 2 | – | 1 | 3 | – |
| WOMEN | 81 | 74 | 74 | 52 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 29 | 24 | 26 | 25 | – |
| HISPANICS | 2 | 2 | – | 1 | – |
| WOMEN | 77 | 80 | 72 | 68 | – |

# UNIVERSITY OF ARKANSAS
# SCHOOL OF ENGINEERING
## Fayetteville, Arkansas 72701

The University of Arkansas, the principal University in Arkansas, is located in Fayetteville, Arkansas, a city of 35,000 in northwest Arkansas. The University of Arkansas has an enrollment of 15,500 students.

## Description of Program(s)

**Recruitment.** High school counselors are contacted; letters are sent to talented students.

**Academic Support.** Summer program for high school juniors; summer program after high school graduation; counseling during academic year.

**Personal Counseling.** Faculty assigned 25 percent during academic year.

**Summer Job Placement.** University Placement Office.

## Contact Person(s):

C.L. Tolliver
Department of Electrical Engineering
University of Arkansas
Fayetteville, Arkansas 72701
[501-575-5009]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

#### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 3 | 2 | – |
| BLACKS | 57 | 49 | 14 | 15 | 4 |
| HISPANICS | 3 | 1 | 3 | 3 | – |
| WOMEN | 89 | 52 | 32 | 50 | 13 |

#### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | 1 | 3 | – |
| BLACKS | 47 | 57 | 24 | 21 | 3 |
| HISPANICS | 2 | 2 | 1 | 3 | – |
| WOMEN | 78 | 57 | 41 | 57 | 11 |

# SOUTHERN UNIVERSITY AND A & M COLLEGE
# SCHOOL OF ENGINEERING
## Baton Rouge, Louisiana 70813

Southern University of Baton Rouge is the parent campus for the world's only predominantly black university system. With an enrollment of approximately 14,000 full and part-time students, SUBR offers sixty-three degrees program at the undergraduate level in addition to a Graduate School and a School of Law.

## Description of Program(s)

**Recruitment.** As a predominately black institution of higher learning, the Southern University System offers a wide range of programs designed to attract minority students as well as other students without regard to race, creed, color, handicap, or sex.

**Academic Support.** A Student Retention Center has been in operation in the College for the past seven years. The Center offers tutoring and other academic support services for courses at all levels and in all disciplines represented within the college.

**Personal Counseling.** All students enrolling in the College are assigned advisors. These advisors are full time faculty members.

**Summer Job Placement.** Students are advised to participate in summer and/or term-time work assignments. While the nation's general economic picture has dimmed, work/study opportunities remain good.

## Contact Person(s):

Thomas L. Henderson
P.O. Box 9969, Southern University
Baton Rouge, Louisiana 70813
[504-771-9969]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 198 | 327 | 132 | 49 | – |
| HISPANICS | 2 | 4 | – | – | – |
| WOMEN | 51 | 105 | 30 | 4 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 207 | 244 | 224 | 113 | – |
| HISPANICS | 2 | 2 | 4 | – | – |
| WOMEN | 50 | 80 | 65 | 16 | – |

# TULANE UNIVERSITY
# SCHOOL OF ENGINEERING
## New Orleans, Louisiana 70118

Tulane University has an undergraduate enrollment of 64,070 with about 900 students in the School of Engineering.

### Description of Program(s)

**Recruitment.** We have a MITE program for New Orleans students. Recruiting is done by mail through local counselors. The students chapter of NSBE visits local high schools to discuss Tulane engineering programs with minority students.

**Academic Support.** Tutoring assistance is available to any engineering student.

**Personal Counseling.** Each student is assigned to an advisor for counseling. The Associate Dean for Undergraduate Studies is also available. The counseling and Testing Center provides free service on academic and non-academic problems. They also provide a study skills workshop.

**Summer Job Placement.** The Placement Center coordinates all recruiting for summer jobs and the School of Engineering provides names of companies with active minority summer programs.

### Contact Person(s):

Dean Sam Sullivan
Engineering - Tulane University
New Orleans, Louisiana 70118
[504-865-5764]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 10 | 20 | 6 | 13 | – |
| HISPANICS | 6 | 14 | 11 | 8 | – |
| WOMEN | 77 | 61 | 45 | 46 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 12 | 11 | 18 | 7 | – |
| HISPANICS | 10 | 8 | 13 | 11 | – |
| WOMEN | 63 | 82 | 51 | 50 | – |

# OKLAHOMA STATE UNIVERSITY
# SCHOOL OF ENGINEERING
## Stillwater, Oklahoma 74078

Oklahoma State University, located in Stillwater, Oklahoma, a community of nearly 31,000, approximately 50 miles northeast of Oklahoma City, has an enrollment of 24,000 students.

## Description of Program(s)

**Recruitment.** Minorities and women are included in our recruiting drive through state high schools.

**Academic Support.** Tutoring for American Indians and Blacks is paid for via the Native American and Council of Partners Programs respectively.

**Personal Counseling.** Provided for by a paid minority counselor.

**Summer Job Placement.** Council for Partners students are assisted with summer job placement.

## Contact Person(s):

Dennis Chamberland
101 E.N.
Oklahoma State University
Stillwater, Oklahoma 74078
[405-624-5276]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 16 | 3 | 3 | 5 | – |
| BLACKS | 35 | 20 | 16 | 10 | – |
| HISPANICS | 5 | 6 | 10 | 9 | – |
| WOMEN | 108 | 85 | 64 | 61 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 12 | 8 | 2 | 3 | – |
| BLACKS | 35 | 19 | 14 | 9 | – |
| HISPANICS | 6 | 3 | 6 | 6 | – |
| WOMEN | 100 | 90 | 69 | 73 | – |

# UNIVERSITY OF OKLAHOMA
# SCHOOL OF ENGINEERING
## Norman, Oklahoma 73019

The University of Oklahoma's main campus is located in Norman, Oklahoma, a city with a population of approximately 75,000, and is 30 miles south of Oklahoma City. The student population at OU is approximately 22,000.

## Description of Program(s)

**Recruitment.** The staff of the Minority Engineering Program (MEP) makes visits to high schools, career days, etc., primarily within the state of Oklahoma. Referrals are also made to MEP from OU's Office of High School and College Relations. These referrals are then followed up on.

**Academic Support.** MEP provides tutors to minority students enrolled in engineering. These services are on a need basis but it is hoped that a more structured program can be put in place for the future. Students are also referred to campus wide support services to try to minimize duplication of services.

**Personal Counseling.** OU's MEP has a full-time counselor/recruiter available to talk to minority engineering students. We don't use the term "personal" counseling in our program because we base counseling on academic concerns.

**Summer Job Programs.** The MEP works closely with undergraduate students in assisting them with finding possible employment during the summer.

## Contact Person(s):

Wayne Steen
College of Engineering
CEC 107
University of Oklahoma
Norman, Oklahoma 73019
[405-325-4161]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 37 | 7 | 9 | 9 | – |
| BLACKS | 47 | 18 | 8 | 5 | – |
| HISPANICS | 17 | 6 | 6 | 2 | – |
| WOMEN | 193 | 112 | 82 | 41 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 25 | 13 | 10 | 5 | – |
| BLACKS | 34 | 26 | 14 | 5 | – |
| HISPANICS | 12 | 12 | 5 | 6 | – |
| WOMEN | 153 | 150 | 103 | 56 | – |

# LAMAR UNIVERSITY
# SCHOOL OF ENGINEERING
## Beaumont, Texas 77710

Lamar University, a state-supported institution, is located in Beaumont, Texas, one of the world's largest petrochemical centers. Enrollment has increased to more than 13,500 students, and the curriculum has been expanded to include many areas of study. Graduate work in specified fields began in the academic year of 1960-61 and extension work became an integral part of the educational program in 1964. A doctoral program in engineering was added in 1971. Lamar University at Orange, offering first and second year courses, opened in 1969. Lamar University at Port Arthur, also offering first and second year courses, began operation in the fall of 1975. The University also owns 36 acres on Pleasure Island in Port Arthur.

## Description of Program(s)

**Recruitment.** Special efforts are made to visit high schools for the purpose of inviting several of the academically talented students to come to Lamar. Scholarships are offered, based upon the strength of their academic record and performance on national tests.

**Academic Support.** NACME retention grant for tutoring and counseling. NSBE Tutoring Services. NSBE Peer Support Mechanism.

**Personal Counseling.** Provide personal counseling as needed. Most of the counseling is in connection with problem solving in mathematics, physics or engineering circuits.

**Summer Job Placement.** Provide students with contact people in industry. The information is based on request from industry to supply them with qualified students for summer employment.

## Contact Person(s):

Dr. Richard L. Price
Lamar University
P.O. Box 10047
Beaumont, Texas 77710
[713-838-8916 or 8930]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT
### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 5 | 2 | – | – | – |
| BLACKS | 67 | 26 | 15 | 13 | – |
| HISPANICS | 50 | 12 | 9 | 11 | – |
| WOMEN | 61 | 24 | 21 | 19 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 4 | 3 | 2 | – | – |
| BLACKS | 75 | 16 | 24 | 16 | – |
| HISPANICS | 44 | 13 | 9 | 11 | – |
| WOMEN | 58 | 19 | 18 | 20 | – |

# RICE UNIVERSITY SCHOOL OF ENGINEERING

## Houston, Texas 77251

Rice University is a private, independent, nonsectarian and coeducational university located just outside downtown Houston, Texas. Undergraduate enrollment is limited to about 2,500 through selective admissions. About one-third of the undergraduates are engineering majors.

### Description of Program(s)

**Recruitment.** Minorities, specifically including Blacks, Hispanics and American Indians are recruited both through the regular admissions staff and through the Rice-Texas Southern University Dual Degree Program.

**Academic Support.** Tutoring is generally available but is specifically provided at Rice and at TSU for the Dual Degree students.

**Personal Counseling.** Counseling is available both at Rice and at TSU.

**Summer Job Placement.** Summer jobs for the Dual Degree students are coordinated at TSU.

### Contact Person(s):

Dr. L. Booker (TSU)
Texas Southern University
Box 140, 3200 Wheeler
Houston, Texas 77004
[713-527-7808]

Dr. Hardy M. Bourland
William Marsh Rice University
P.O. Box 1892
Houston, Texas 77251
[713-527-4955]

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**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 3 | – | – | – |
| BLACKS | 6* | 5 | 3 | 7 | – |
| HISPANICS | 15* | 2 | 2 | 3 | – |
| WOMEN | 66 | 41 | 31 | 41 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | 3 | – | – |
| BLACKS | 6 | 6 | 5 | 3 | – |
| HISPANICS | 15 | 15 | 2 | 2 | – |
| WOMEN | 53 | 56 | 38 | 35 | 1 |

*1980 First year figures

# SOUTHERN METHODIST UNIVERSITY SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Dallas, Texas 75275

Southern Methodist University is a coeducational university located in Dallas, Texas. The University has 5,800 undergraduate students and 3,000 graduate students of which 900 undergraduates and 750 graduate students are engineering and computer science students.

## Description of Program(s)

**Recruitment.** SMU actively recruits minority students through direct mail to prospective students and to high school counselors, as well as visits to many high schools by admission counselors. Dean Harkey visits 12-15 cities each year to visit with prospective students and their parents.

**Academic Support.** All minority students who come into SMU's program (Minority Cooperative Scholarship Program) are housed on campus for ten weeks in the summer prior to their freshman year. Each has an industrial sponsor, and works for this firm on a full time basis. Tutoring, counseling, and orientation programs are conducted during this ten week period.

**Personal Counseling.** Dean Harkey is available for counseling to anyone who needs it as well as the Black and Hispanic Student Advisors.

**Summer Job Placement.** All students in the program are co-op.

## Contact Person(s):

Jack W. Harkey, Assistant Dean
Southern Methodist University
Dallas, Texas 75275
[214-692-3041]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall,, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 1 | – | – |
| BLACKS | 8 | 1 | 4 | 3 | – |
| HISPANICS | 9 | 2 | 10 | 6 | – |
| WOMEN | 13 | 17 | 38 | 15 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 1 | – | – |
| BLACKS | 3 | 8 | 1 | 4 | – |
| HISPANICS | 9 | 9 | 2 | 10 | – |
| WOMEN | 20 | 11 | 23 | 41 | – |

# TEXAS A & M UNIVERSITY
# COLLEGE OF ENGINEERING
## College Station, Texas 77843

Texas A & M University was founded as a land-grant college in 1876 and is the state's oldest public institution of higher education. Because it was conceived as a school of agriculture and engineering, the institution maintains the expected emphasis; but offerings in many other areas have been added to broaden the scope of instruction. The campus covers 5,200 acres, and estimated value of the physical plant is now $235 million. The total enrollment is about 35,000, including approximately 5,400 graduate students.

The Bryan-College Station area is a progressive community with a population of about 100,000. It is centrally located in relation to Houston, Dallas, Fort Worth, and Austin. The area provides many recreational and cultural activities.

## Description of Program(s)

**Recruitment.** For minority students, we sponsor the Summer Enrichment Experience in Engineering. We also sponsor buses to bring minority high school students from various schools in Texas to functions on the Texas A & M campus. We work closely with the School Relations Office, whose primary responsibility is to recruit minority students. Currently, it seems the majority of incoming students are interested in either engineering or pre-medicine. We also offer engineering scholarships to qualified incoming students. These scholarships are generally renewable as long as the students continue to meet the criteria.

**Academic Support and Personal Counseling.** Because of its concern for careful, personal counseling of its students, Texas A & M University does not have large problems with retention of its minority students. In spite of this fact, many minority students come to us with little or no counseling on how to make the transition from high school to college life. One organization helping minority students to make this adjustment is the National Society of Black Engineers. The upperclassmen in this society have been always available to encourage new students and to provide tutoring to those who require such services. During the spring semesters of the 1981 and 1982 academic years, a special weekend retreat was held in Palestine, Texas for minority students. The purpose of the retreat was to provide an indepth seminar experience in topics related to study techniques, how to take notes, how to take exams, and how to successfully make the transition from high school to college and from college to industry. Over 50 students participated in each weekend retreat. Outside resource persons provided seminar sessions on such topics as "How to Take Notes", "How to Take Exams", "How to Manage Study Time," and "How to Cope with the Pressures of Being a Recently Graduated Minority Engineer." Although it is difficult to measure the success of this actitivy, early indications are that its impact will be significant on our minority student body. A continuation of this retreat or a similar experience will likely be used during the coming academic year. In addition to this, Texas A & M also has a mentorship program, whereby faculty members are available to assist students in their needs, academic or personal. Numerous honor and professional societies offer tutors in almost every subject area.

**Summer Job Placement.** Texas A & M University provides employment assistance to all students. The Placement Center provides orientation programs concerning the use of its services and career advice, as well as counseling for students. The Placement Center has a broad range of contact with industry. In addition to interviews and job referrals, the Center operates an extensive career planning and employment library, provides advice on letter writing, resumes, ethics and principles, salary and job opportunities.

## Contact Person(s):

Terry E. Shoup, Assistant Dean
College of Engineering
Texas A & M University
College Station, Texas 77843
[713-845-7251]

*Continued on next page*

## FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | – | 1 | – |
| BLACKS | 46 | 22 | 16 | 11 | – |
| HISPANICS | 135 | 67 | 73 | 70 | – |
| WOMEN | 432 | 259 | 266 | 247 | 2 |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 5 | 20 | – | – | – |
| BLACKS | 55 | 41 | 24 | 19 | – |
| HISPANICS | 164 | 111 | 102 | 103 | – |
| WOMEN | 602 | 394 | 393 | 402 | – |

# TEXAS A & M UNIVERSITY AT GALVESTON
# TEXAS MARITIME COLLEGE
## Galveston, Texas 77553

Located in Galveston, Texas, a city of 64,000 people, 48 miles south of Houston, Texas. Seven hundred-fifty students are currently enrolled. On graduation, the student is awarded the Texas A & M University degree in the major study. Texas A & M University at Galveston is the marine and maritime sciences oriented division of the Texas A & M University system.

### Description of Program(s)

**Recruitment.** The Texas A & M University at Galveston is a special purpose school for undergraduate instruction in the practice of seamanship, ship construction, naval architecture, engineering, the science of navigation and undergraduate educational programs related to the general field of marine resources. The specialized nature of the institution has required recruitment for individuals without regard to race, creed, or gender.

**Academic Support.** A student-teacher ratio averaging 15 to one makes individual tutoring programs readily accessible. Although there are no special courses at this time, it is possible that the courses could be organized if there is a need. It is to be noted that we do not admit students meeting different standards, i.e., the SAT scores are uniform with the minimum acceptable verbal and mathematics score being 800 if standing in the highest quarter of the high school graduating class and 1,000 if standing in the fourth quarter.

**Personal Counseling.** Available through the student's academic advisor or the Office of the Director of Student Affairs. Once again, the "small school" tends to provide for ample personal counseling.

**Summer Job Placement.** Administered through the academic departments and the Office of the Director, Student Affairs.

### Contact Person(s):

Kenneth G. Haynes
Texas Maritime College
Texas A & M University
P.O. Box 1675
Galveston, Texas 77553
[713-766-3279]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | 1 | – |
| WOMEN | 4 | – | 2 | 2 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | 1 | – | – | – | – |
| WOMEN | 3 | 4 | – | 2 | – |

# TRINITY UNIVERSITY SCHOOL OF ENGINEERING

## San Antonio, Texas 78284

Located in San Antonio, Texas, a city of about 750,000 people, Trinity is a small (2,700 undergraduates, 500 graduate students) university with a few specially selected, strong professional programs and a strong liberal arts program. Engineering Science is one of the professional programs. Student quality is well above that of the average college bound student, and the curriculum is demanding.

### Description of Program(s)

**Recruitment.** Trinity University does not specifically recruit minorities. A significant number of Mexican-American students, as well as a few Black students, enter the engineering program each year.

**Academic Support.** Our support systems are not specifically targeted for minority students, but tutoring is available for all students who want and/or need it. Special help sessions are also available in selected courses such as calculus.

**Personal Counseling.** The University provides counseling services for all students who want it.

**Summer Job Placement.** Most engineering students who desire summer work are placed with the assistance of Engineering Science Department contacts and the University Placement Office. Minorities do not have an advantage over non-minorities, but the University does not exploit it in any way.

### Contact Person(s):

R.D. Swope
Trinity University
715 Stadium Drive
San Antonio, Texas 78284
[512-736-7512]

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**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | 6 | 2 | 3 | 1 | – |
| WOMEN | 18 | 12 | 5 | 6 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | 8 | 3 | 2 | 3 | – |
| WOMEN | 17 | 16 | 8 | 5 | – |

# UNIVERSITY OF TEXAS AT ARLINGTON COLLEGE OF ENGINEERING

## Arlington, Texas 76019

The University of Texas at Arlington, located in Arlington, Texas, a city of approximately 105,000 midway between Dallas and Fort Worth, has a total enrollment of 20,000 students. 4,000 students are enrolled in engineering.

## Description of Program(s)

**Recruitment.** Frequent visits to local high schools, contacts with math and science teachers, provision for campus visits and counseling for students, scholarship assistance for strong students.

**Academic Support.** Tutoring, Project SOAR. Pi Sigma Pi, a minority engineering society, also provides academic/tutoring support.

**Personal Counseling.** Pi Sigma Pi and faculty advisors provide personal counseling.

**Summer Job Placement.** Handled by faculty advisor.

## Contact Person(s):

J.S. Robottom
Office of the Dean
College of Engineering
University of Texas at Arlington
Box 19019
Arlington, Texas 76019
[817-273-2571]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | – | – | – | – |
| BLACKS | 42 | 11 | 11 | 8 | – |
| HISPANICS | 32 | 5 | 5 | 10 | – |
| WOMEN | 111 | 46 | 53 | 48 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | – | – | – | – |
| BLACKS | 31 | 21 | 11 | 10 | – |
| HISPANICS | 33 | 7 | 7 | 6 | – |
| WOMEN | 94 | 107 | 62 | 63 | – |

# THE UNIVERSITY OF TEXAS AT AUSTIN
# COLLEGE OF ENGINEERING
## Austin, Texas 78712

The University of Texas at Austin, the capital of Texas, has a student enrollment of 48,000. During the last academic year (1980-81), 2.4 percent of the student population were Black students and 7.6 percent were of Hispanic descent. The University of Texas at Austin is a coed institution with campus housing for 5,212 single students. Additional space is available for women in cooperative housing and for families.

## Description of Program(s)

**Recruitment.** World of Engineering, PREP (at the University of Texas at San Antonio), MITE, visits to high school campuses, visits to organized groups sponsored by Texas Ex-Students Organizations, talks to minority groups who visit U.T. Austin campus.

**Academic Support.** Pi Sigma Pi organized tutoring for minorities in engineering, RASSL offers university-wide tutoring services.

**Personal Counseling.** (For 1981-82) A half-time minority graduate student is available to all minorities in engineering for personal counseling. Dean's representative (Dr. Fannin) is available to all students for personal counseling. All departments have counselors as well. The University maintains a counseling center open to all students.

**Summer Job Placement.** College of Engineering Career Assistance Center.

## Contact Person(s):

Charles A. Sorber, Associate Dean for Academic Affairs
ECJ 10.316
College of Engineering
University of Texas at Austin
[512-471-7995]

FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 6 | 1 | 5 | – | – |
| BLACKS | 68 | 35 | 26 | 22 | – |
| HISPANICS | 141 | 112 | 99 | 120 | – |
| WOMEN | 311 | 183 | 161 | 178 | – |

By Class & Minority Group: Fall, 1982

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 5 | 1 | 2 | 4 | – |
| BLACKS | 115 | 41 | 33 | 32 | – |
| HISPANICS | 224 | 129 | 131 | 164 | – |
| WOMEN | 341 | 209 | 188 | 264 | – |

# UNIVERSITY OF TEXAS AT EL PASO
# COLLEGE OF ENGINEERING
## El Paso, Texas 79968

The University of Texas at El Paso, is located in El Paso, Texas, a city of approximately 382,000 people. The University has an enrollment of approximately 16,000 students: 41.5% Hispanic, .5% American Indian, 2.5% Black.

### Description of Program(s)

**Recruitment.** In addition to the general recruitment efforts, which are in effect minority recruitment, we have specific summer programs designed to recruit Hispanics and women into engineering. The Southwest Resource Institute (SRI) visits local high schools with Hispanic faculty and students to encourage Hispanic students to enter engineering programs. The POE Program - Preview of Engineering - is a six-week summer program designed for minority high school seniors to encourage them to enter engineering (all costs are fully paid by POE for the program). The Junior Girls Program is a six-week summer program for high school junior girls to interest and encourage them into engineering. The Summer Institute is a series of two week summer programs for high school freshmen, sophomore and junior students throughout the Southwest to interest minority students in engineering.

**Academic Support.** Tutoring is offered (at no cost) in English and Spanish. Many courses are taught in Spanish (i.e., math. U.S. History).

**Personal Counseling.** Spanish speaking counselors are available.

**Summer Job Placement.** Placement service provides both summer full-time placement and academic term part-time placement.

### Contact Person(s):

SRI - Mr. Mike Izquierdo
Department of Electrical Engineering
University of Texas at El Paso
El Paso, Texas 79968
[915-747-5470]

POE - Dr. Thomas J. McLean
Department of Mechanical and Industrial Engineering
University of Texas at El Paso
El Paso, Texas 79968
[915-747-5450]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT
### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 1 | 3 | 2 | 4 | – |
| HISPANICS | 294 | 180 | 141 | 167 | – |
| WOMEN | 86 | 55 | 37 | 52 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 2 | 1 | 5 | 3 | – |
| HISPANICS | 142 | 96 | 102 | 136 | – |
| WOMEN | 81 | 53 | 57 | 44 | – |

# ARIZONA STATE UNIVERSITY
# SCHOOL OF ENGINEERING

## Tempe, Arizona 85287

Arizona State University is located in the city of Tempe, surrounded by the municipalities comprising the fast-growing Valley of the Sun--Phoenix, Scottsdale, Mesa, Chandler, Glendale and other communities. Over 38,000 students are enrolled at the main and two branch campuses. ABET accredited undergraduate, masters, and doctoral engineering programs are offered by the School of Engineering.

### Descriptions of Program(s)

**Recruitment.** One week long summer programs for high school students, high school and community college visitation, workshops for high school and junior high math and science teachers, math/science competitive events for high school students, on-campus and off-campus events jointly sponsored by ethnic science and engineering associations.

**Academic Support.** Referral to university and college tutorial services; special sessions on study skills, goal setting, careers and opportunities, interviewing skills, etc.; industrial tours and meetings with minority engineers, student chapter sponsored study sessions.

**Personal Counseling.** Minority programs coordinator, student advisement coordinator, referrals to University Counseling Service, Education Counseling Department, Financial Aids, Scholarship Office, Testing Service, and Health Services.

**Summer Job Placement.** Minority Programs Coordinator working with the Cooperative Education Coordinator, Career Services Office, Financial Aids Office, and governmental and industrial companies developing jobs and assisting students to secure placement.

### Contact Person(s):

Mr. Manuel Aroz
Arizona State University, College of Engineering
and Applied Science
Tempe, Arizona 85287
[602-965-5150]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 18 | 9 | 6 | – | – |
| BLACKS | 20 | 10 | 11 | 9 | – |
| HISPANICS | 28 | 17 | 18 | 24 | – |
| WOMEN | 147 | 82 | 75 | 74 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 16 | 11 | 6 | 1 | – |
| BLACKS | 20 | 10 | 7 | 15 | – |
| HISPANICS | 25 | 24 | 12 | 20 | – |
| WOMEN | 130 | 102 | 64 | 87 | – |

# UNIVERSITY OF ARIZONA
# COLLEGE OF ENGINEERING
## Tuscon, Arizona 85721

The University of Arizona, located in Tuscon, boasts one of the strongest programs in engineering studies in the western states. Contained within a University of 30,000 students, the College of Engineering and the College of Mines, have a combined undergraduate enrollment of 3,500 students. The University is a member of the Pacific-10 Athletic Conference.

## Description of Program(s)

**Recruitment.** Pre-engineering summer programs for 160 minority and women high school students. Visits to Indian reservations. Liaison with minority high schools. Minority Student Affairs Office for minorities.

**Academic Support.** The Office of Minority Student Affairs offers a variety of retention and academic support services to minority students. This includes peer counseling and tutoring through the Student Encouragement Program. The New Start Program offers counseling and advising, the use of a file of old exams, a monthly newsletter, use of a student lounge and individual study cubicles with typewriters and information posted on three bulletin boards.

**Personal Counseling.** SEP, New Start and a very professional and well staffed student counseling office.

**Summer Job Placement.** In addition to Minority Student Affairs, the placement office offers a complete array of summer job placement programs. The Cooperative Education Program also offers a unique opportunity.

## Contact Person(s):

Dr. Manuel Escamilla
Director of Minority Student Affairs
Old Main 134, University of Arizona
Tucson, Arizona 85721
[602-626-5231]

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**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 14 | 4 | 3 | 2 | – |
| BLACKS | 32 | 11 | 9 | 8 | – |
| HISPANICS | 99 | 55 | 24 | 33 | – |
| WOMEN | 145 | 127 | 109 | 98 | -- |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 14 | 11 | 3 | 3 | – |
| BLACKS | 37 | 26 | 9 | 8 | – |
| HISPANICS | 112 | 79 | 47 | 22 | – |
| WOMEN | 125 | 146 | 122 | 120 | – |

# COLORADO SCHOOL OF MINES
# SCHOOL OF ENGINEERING
## Golden, Colorado 80401

Located in a suburban setting in a town of 14,000 people. Total enrollment is 3,000 students. Colorado School of Mines is an engineering school, offering degrees in ten (10) areas of engineering.

### Description of Program(s)

**Recruitment.** Special program in high schools, preparing them for college and attracting them to the engineering field. CSM offers a Minority Scholarship Program. CSM also provides academic career advising.

**Academic Support.** Remedial or preparatory courses are offered.

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

### Contact Person(s):

Frank Waterous
Admissions Office
Colorado School of Mines
Golden, Colorado 80401
[303-273-3220]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 1 | 2 | – | – |
| BLACKS | 4 | 2 | 3 | 1 | – |
| HISPANICS | 19 | 11 | 7 | 7 | – |
| WOMEN | 138 | 71 | 71 | 87 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | 2 | – |
| BLACKS | 2 | 5 | 2 | 2 | – |
| HISPANICS | 20 | 18 | 8 | 4 | – |
| WOMEN | 157 | 127 | 64 | 105 | – |

# COLORADO STATE UNIVERSITY
# SCHOOL OF ENGINEERING
## Fort Collins, Colorado 80523

Colorado State University in Fort Collins has an enrollment of 17,500 students; 2,000 of these students are in the engineering curriculum.

### Description of Program(s)

**Recruitment.** Special admissions personnel in the Admissions Office; visits to high schools; visits to CSU campus.

**Academic Support.** Tutoring is available in several offices and dormitories.

**Personal Counseling.** The University Counseling Center has full services available to all students.

**Summer Job Placement.** Our Career Services Center is available to all students and handles requests for summer job placements.

### Contact Person(s):

Charles Britton
College of Engineering
Colorado State University
Fort Collins, Colorado 80523
[303-491-6585]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT
#### By Class & Minority Group: Fall, 1982

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | – | – | 1 | – |
| BLACKS | 9 | 2 | 4 | 4 | – |
| HISPANICS | 28 | 10 | 10 | 9 | – |
| WOMEN | 73 | 58 | 57 | 72 | – |

#### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | – | – |
| BLACKS | 5 | 8 | 3 | 5 | – |
| HISPANICS | 20 | 20 | 10 | 12 | – |
| WOMEN | 67 | 65 | 53 | 75 | – |

# U.S. AIR FORCE ACADEMY SCHOOL OF ENGINEERING

### USAF Academy
### Colorado Springs, Colorado 80840

The Air Force Academy is a military service academy located approximately ten miles north of Colorado Springs, Colorado. Annual enrollment exceeds 4,000 cadets. The academic program includes: electrical, civil, aeronautical, astronautical engineering; engineering mechanics; and engineering science. Students graduate with a Bachelor of Science degree and a commission in the United States Air Force.

## Description of Program(s)

**Recruitment.** The Academy staffs a Minority Affairs Office with 13 persons whose primary responsibility is recruitment and retention of minorities. The activities performed by this office include visits to inner-city high schools, briefings to educators and congressional staffers, public advertising and participation in the Minority Introduction to Engineering Program.

**Academic Support.** Special academic programs include Extra Instruction, How-to-Study, Test Anxiety Reduction, Speech Making Assistance, and the Self-Help Learning Skills Program. Specific courses include English as a Second Language, Fundamentals of English, Reading Improvement and Pre-Calculus Mathematics.

**Personal Counseling.** A full-time staff of professional counselors is available to assist the personal and emotional development of minority cadets. A Group Skills Laboratory offers assertiveness training, interpersonal communications, stress management, women's activities and social programs.

**Summer Job Placement.** None

## Contact Person(s):

George D. Peterson, Lieutenant Colonel, USAF
USAFA/DFEE
USAF Academy
Colorado Springs, CO 80840
[303-472-3190]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 2 | 3 | – |
| BLACKS | – | 2 | 12 | 14 | – |
| HISPANICS | – | 1 | 17 | 17 | – |
| WOMEN | – | 3 | 18 | 18 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | 2 | – |
| BLACKS | – | – | 2 | 12 | – |
| HISPANICS | – | 1 | 1 | 17 | – |
| WOMEN | – | 3 | 16 | 18 | – |

# UNIVERSITY OF COLORADO, BOULDER
# SCHOOL OF ENGINEERING
## Boulder, Colorado 80309

The University of Colorado at Boulder is located in a city of more than 100,000 people and located quite close to Denver. Enrollment on the Boulder campus of the University of Colorado is approximately 22,000 students of which 10 percent are enrolled in the College of Engineering.

## Description of Program(s)

**Recruitment.** In addition to visiting high schools when possible, the Engineering Minority Program (EMP) works closely with the other EOP groups on campus, the Admissions Office and a selected group of high school counselors to identify and encourage early those minority secondary school students showing engineering talents and interests. Additionally, we are now able to administer some scholarship aid to entering freshmen.

**Academic Support.** EMP maintains a program office with posted hours during which students can be counseled on academic or other needs. A learning skiklls center is available at CU for those of our students with special needs in this regard.

**Personal Counseling.** EMP maintains a staff of peer counselors who themselves are upper-class or graduate ethnic minority students on a regular basis. The students also have access to the program director when the need arises.

**Summer Job Placement.** Beginning at the first of the spring semester each year, minority engineering students are invited to fill out a resume. EMP then performs a liaison role in matching up these students and their particular strengths with industries willing to hire such students for the summer. We consider this function of the program to be a top priority item.

## Contact Person(s):

J.C. Twombly, Director
Engineering Minority Program
Campus Box #422
University of Colorado
Boulder, Colorado 80909
[303-492-6606]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 1 | 1 | 3 | 2 |
| BLACKS | 3 | 7 | 6 | 5 | 1 |
| HISPANICS | 23 | 7 | 13 | 7 | 7 |
| WOMEN | 129 | 93 | 88 | 100 | 50 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 1 | 1 | 1 |
| BLACKS | 6 | 2 | 8 | 4 | 3 |
| HISPANICS | 24 | 9 | 6 | 15 | 4 |
| WOMEN | 121 | 95 | 84 | 104 | 46 |

# IDAHO STATE UNIVERSITY

## Pocatello, Idaho 83209

Four year public liberal arts institution located in Southeastern Idaho, Pocatello, Idaho, serving approximately 9,000 academic and vo-tech students. The student body consists of approximately 50 percent traditional and 50 percent non-traditional students with less than 3 percent minority student enrollment.

### Description of Program(s)

**Recruitment.** The Talent Search Program housed at Idaho State University since approximately 1969 recruits low-income and educationally disadvantaged youth into post-secondary institutions or other advanced educational and training programs by assisting with admissions, financial aids, placement into colleges and general educational and career information.

**Academic Support.** Referrals to Special Services Programs. Assistance with admissions and financial aids. General guidance and information. Orientation to various post-secondary schools and various academic programs.

**Personal Counseling.** Counseling is provided concerning the type of post-secondary programs or training best for each student and resources available to help students enter the University.

**Summer Job Placement.** Referrals to CETA employment. Job placement is not a key responsibility of Talent Search.

### Contact Person(s):

Ms. Francis Katsilometas
Box 8345
Idaho State University
Pocatello, Idaho 83209
[208-236-3242]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | — | — | — | — | — |
| BLACKS | 1 | — | — | — | — |
| HISPANICS | 3 | 2 | — | 1 | — |
| WOMEN | 9 | 6 | 5 | 5 | — |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | — | — | — | — | — |
| BLACKS | — | — | — | — | — |
| HISPANICS | — | — | — | — | — |
| WOMEN | 10 | 5 | 5 | 6 | — |

# UNIVERSITY OF IDAHO
# SCHOOL OF ENGINEERING
## Moscow, Idaho 83843

The University of Idaho is a comprehensive Land Grant University with an enrollment of approximately 8,000 students located in Moscow, Idaho. The University is a residential campus in northern Idaho with nine colleges. These colleges include Engineering, Agriculture, Letters & Science, Mines and Earth Resources, Law, Art & Architecture, Forestry, Business and Education.

## Description of Program(s)

**Recruitment.** Activities for recruiting Blacks, Hispanics, and American Indians include an on-campus visitation program, special mailings, and contact with agencies who might make referrals of individuals who are interested in attending an institution of higher education.

**Academic Support.** Involves the services of a Special Services grant which is designed to provide academic support through study skills classes, tutoring, and remedial classes in math and english. The University of Idaho also has a Learning Skills Center for all students who are having academic difficulty. Special academic advising is available through a minority student advisor.

**Personal Counseling.** Personal counseling is available from our minority student advisor in Student Advisory Services or from professional counselors in our Counseling Center.

**Summer Job Placement.** N/A

## Contact Person(s):

Bruce M. Pitman, Dean of Students
(Acting Director)
Student Advisory Services
UCC 241
University of Idaho
Moscow, Idaho 83843
[208-855-6757]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | 1 | 1 | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 48 | 26 | 26 | 30 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 2 | – | 1 | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | 3 | 2 | 1 | 1 | – |
| WOMEN | 45 | 46 | 20 | 39 | – |

# MONTANA COLLEGE OF MINERAL SCIENCE AND TECHNOLOGY SCHOOL OF ENGINEERING

## Butte, Montana 59701

Montana College of Mineral Science and Technology, located in Butte, Montana, a city of approximately 38,000, has 2,000 students enrolled in eight fields of mineral related engineering programs.

## Description of Program(s)

**Recruitment.** "Montana Tech Project on Women in the Engineering Curriculum." The project is designed to meet the following objectives: 1) increase enrollment of women students in the engineerinng disciplines, 2) improve and equalize advising and career counseling services for women engineering students, and 3) increase the awareness of the Engineering Division's essentially all-male faculty of barriers to women students within existing curricula. Project activities are: 1) development of a freshman course to present women with an introduction to technological concepts applicable in engineering, and 2) presentation of a series of lectures and seminars by women engineers which will bring successful role models from the professional world to Montana Tech's women students.

**Academic Support.** A program to provide support for women engineering students is being developed. A goal of 22 percent women engineering students has been set for 1985. In 1982-83, women represent 15.6 percent of our engineering students (162 women). Program will be implemented in 1982-83.

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

## Contact Person(s):

Ms. Robin Billau
Department of Environment Engineering
Montana College of Mineral Science and Technology
Butte, Montana 59701
[406-496-4445]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 3 | 1 | 1 | – |
| BLACKS | – | – | – | 1 | – |
| HISPANICS | 1 | – | 1 | – | – |
| WOMEN | 27 | 36 | 22 | 25 | 2 |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | 3 | 1 | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | 1 | 1 | – | 1 | – |
| WOMEN | 36 | 23 | 27 | 21 | 1 |

# UNIVERSITY OF NEVADA, LAS VEGAS SCHOOL OF ENGINEERING

## Las Vegas, Nevada 89154

The University of Nevada, Las Vegas offers curricula in civil and electrical (computer and electronics) engineering. The department of engineering enrolls approximately 350 students (100 full-time and 250 part-time) and graduates approximately 15 students per year.

## Description of Program(s)

**Recruitment.** The University of Nevada, Las Vegas has no special programs for minority recruitment but a Spanish-speaking advisor is assigned to Spanish-speaking students. There is also encouragement for women students to pursue engineering curriculums.

**Academic Support.** N/A

**Personal Counseling.** N/A

**Summer Job Placement.** N/A

## Contact Person(s):

J.G. Tryon, Chairman
Department of Engineering
University of Nevada, Las Vegas
Las Vegas, Nevada 89154
[702-739-3701]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | PART TIME |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | 1 | 1 | – |
| BLACKS | 4 | 2 | 3 | 2 | 20 |
| HISPANICS | 5 | 1 | 2 | 2 | 10 |
| WOMEN | 2 | 2 | 2 | 2 | 30 |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | PART TIME |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 4 | 2 | 1 | 1 | 20 |
| HISPANICS | – | 4 | – | – | 11 |
| WOMEN | 2 | 1 | – | 3 | 29 |

# NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

## Socorro, New Mexico 87801

New Mexico Institute of Mining and Technology, located in Socorro, New Mexico, a city of 7,600, 75 miles south of Albuquerque, New Mexico, has an enrollment of 1,374 students. It is one of the few institutes in the nation to offer degrees in mining, petroleum, geological, environmental and metallurgical engineering. The Institute specializes in research and education in the mineral and engineering sciences, and offers degrees through the doctorate in geoscience, metallurgy, physics and computer science. Courses in the humanities, social sciences, music and arts supplement the technical programs.

## Description of Program(s)

**Recruitment.** Summer programs for minority high school students have been held since 1980. Representatives visit state high schools and junior colleges with minority students and participate in many career conferences aimed at minorities and women. The overall program objective is to increase the number of minority engineering graduates. Admissions has used mailing lists provided by CEEB and ME$^3$. In addition, New Mexico Tech has a Minority Engineering Program and participates in state and national programs to recruit minorities and women into technical programs.

**Academic Support.** Free tutoring services are provided to all students by the Institute. This has been supplemented by other funding sources.

**Personal Counseling.** Services are provided by a certified counselor employed through the Southwest Resource Center for Science and Engineering Program and New Mexico Tech. Part-time services of a psychiatric social worker are available on a referral/self-referral basis.

**Summer Job Placement.** The counselor coordinates internally with the Placement Officer and externally with industry and NACME (SEEP) to identify minority students and encourage them to apply.

## Contact Person(s):

Elizabeth A. Yost
New Mexico Institute of Mining and Technology
P.O. Box 3527, C.S.
Socorro, New Mexico 87801
[505-835-5846]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 5 | – | 1 | 2 | – |
| BLACKS | 2 | 3 | 2 | 3 | 2 |
| HISPANICS | 9 | 2 | 11 | 7 | 1 |
| WOMEN | 29 | 13 | 13 | 29 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 8 | 5 | 3 | 1 | 1 |
| BLACKS | 2 | 1 | – | 4 | – |
| HISPANICS | 17 | 4 | 9 | 8 | 4 |
| WOMEN | 37 | 21 | 15 | 30 | 2 |

# NEW MEXICO STATE UNIVERSITY SCHOOL OF ENGINEERING

## Las Cruces, New Mexico 88003

New Mexico State University, offering degrees through Ph.D., is located in Southern New Mexico, near Mexican border, with 12,500 students, co-ed, approximately 30 percent ethnic minority with predominantly Hispanic and Native-American.

## Description of Program(s)

*__Recruitment.__ Visitation to high schools, civic groups, and ethnic meetings. Have M.I.T.E. and other similar summer programs to make high school students aware of university life and opportunities.

*__Academic Support.__ A wide range of tutoring support is available, plus social awareness programs. Spanish language sections of courses are given parallel to regular English language courses.

*__Personal Counseling.__ There are three Ethnic Affairs offices which actively provide counseling. These are: American-Indian, Chicano, and Black. Additionally, in Engineering, there is a special counselor for personal help.

*__Summer Job Placement.__ The Placement Office actively develops and promotes summer employment. There is also a large Cooperative Education Program, primarily for engineering students.

## Contact Person(s):

Ms. Rose Marie Melon
Box 3449
Las Cruces, New Mexico 88003
[505-646-3545]

*Under the general auspices of the College of Engineering, there is an NSF sponsored program (joint with the University of New Mexico) called Southwest Resource Center, funded at $2,000,000 for four years to promote science and engineering in the southwest.

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 27 | 10 | 3 | 8 | – |
| BLACKS | 6 | 1 | 1 | 1 | – |
| HISPANICS | 205 | 114 | 75 | 91 | – |
| WOMEN | 134 | 84 | 46 | 69 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 27 | 10 | 6 | 4 | – |
| BLACKS | 13 | 1 | 1 | 1 | – |
| HISPANICS | 199 | 85 | 73 | 52 | – |
| WOMEN | 118 | 90 | 73 | 66 | – |

# UNIVERSITY OF NEW MEXICO
# SCHOOL OF ENGINEERING
### Albuquerque, New Mexico 87131

University of New Mexico is located in Albuquerque, in the center of the state. Albuquerque is New Mexico's only city with a population over 300,000. The College of Engineering enrolls 2,370 undergraduates; of these, 2 percent are Black, 2.4 percent American Indian and 23 percent Hispanic.

## Description of Program(s)

**Recruitment.** Networking with math and science teachers; school visits by program staff and minority graduates of NM high schools; summer programs for students; followup activities with participants; links between local industries and schools; career fairs; participation in science fairs.

**Academic Support.** We are currently adapting the California MESA model to meet New Mexico's needs. Special support for minority students in grades 9-12 through a program to be piloted in 10 schools in 1982-83. To provide career information and motivation through awareness in what's needed in high school to prepare for college.

**Personal Counseling.** We work closely with high school counselors to provide career information; we provide personal counseling during our summer programs and in follow-up on participants.

**Summer Job Placement.** Not yet developed.

## Contact Person(s):

Tom Cummings, Special Programs or,
Jimmy Shorty, Native American Program or,
Peggy Maestas, Hispanic Program
Farris Engineering Center 345
University of New Mexico
Albuquerque, New Mexico 87131
[505-277-5831 or 277-3021]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 39 | 6 | 4 | 7 | – |
| BLACKS | 10 | 4 | 10 | 3 | – |
| HISPANICS | 314 | 85 | 87 | 59 | – |
| WOMEN | 316 | 83 | 68 | 46 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 38 | 9 | 2 | 5 | – |
| BLACKS | 12 | 4 | 3 | 6 | – |
| HISPANICS | 237 | 153 | 56 | 73 | – |
| WOMEN | 185 | 226 | 52 | 73 | – |

# UTAH STATE UNIVERSITY
# COLLEGE OF ENGINEERING
## Logan, Utah 84322

Utah State University, located in Logan, Utah, a city of 25,000, nearly 80 miles north of Salt Lake City, is the land-grant school of the state of Utah with an enrollment of approximately 10,000 students. The College of Engineering has an enrollment of approximately 1,500 students of which about 1,250 are enrolled in professional engineering programs.

## Description of Program(s)

**Recruitment.** In the recruitment of minority students, there is no special program at this time. In the recruitment of women students we have an endowed scholarship program which allows us to make very attractive scholarship offers to eligible, high school graduates.

**Academic Support.** No special programs for minorities or women only.

**Personal Counseling.** No special programs for minorities or women only.

**Summer Job Placement.** No special programs for minorities or women only.

## Contact Person(s):

Dr. A. Bruce Bishop, Dean
Utah State University
College of Engineering, UMC 41
Logan, Utah 84322
[801-750-2775]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | 2 | – | – | 1 | – |
| WOMEN | 20 | 11 | 7 | 8 | – |

By Class & Minority Group: Fall, 1982 (estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 1 | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | 2 | 2 | – | – | – |
| WOMEN | 21 | 14 | 8 | 7 | – |

# CALIFORNIA INSTITUTE OF TECHNOLOGY SCHOOL OF ENGINEERING

Pasadena, California 91125

Mathematics, science, engineering and pre-med research institution; 830 undergraduates, 850 graduate students and 654 faculty members.

## Description of Program(s)

Forty-two percent of minority students are in Engineering. Others are in Mathematics, Science and Pre-Med.)

**Recruitment.** Special recruitment; Summer Bridge Program.

**Academic Support.** Tutoring, counseling and possible reduced loads during first two years. Monitoring during the first two years, help to transfer if necessary. Sixty percent graduation rate. Heavy retention orientation. Also, recruitment, admission and retention programs conducted by the same persons.

**Personal Counseling.** Available as needed, or when the program director feels it is needed. Students are monitored during first two years.

**Summer Job Placement.** All California Tech students who wish to work during summer months are placed. This is not a cooperative program.

## Contact Person(s):

Lee F. Browne
210-40 California Institute of Technology
Pasadena, California 91125
[213-356-6207]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 2 | – | – |
| BLACKS | 21 | 13 | 14 | 6 | 1 |
| HISPANICS | 24 | 12 | 16 | 8 | 3 |
| WOMEN | 52 | 12 | 17 | 12 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 1 | 2 | – | – |
| BLACKS | 16 | 12 | 16 | 7 | 3 |
| HISPANICS | 21 | 12 | 16 | 8 | 5 |
| WOMEN | 40 | 22 | 11 | 19 | – |

# CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA
# SCHOOL OF ENGINEERING
## Pomona, California 91768

California State Polytechnic University, Pomona is one of 19 universities in the California State University System. It was established in 1938, operates on a year-round quarter system, and offers baccalaureate and masters' degree programs in six academic schools: Agriculture, Arts, Business Administration, Engineering, Environmental Design and Science. Teacher education credential programs are administered by a university-wide Teacher Preparation Center.

The university has approximately 16,000 students (92 percent of whom commute), 907 academic and 818 non-academic employees drawn from the highly diversified populations of Los Angeles, Orange, Riverside, and San Bernardino Counties.

## Description of Program(s)

**Recruitment.** Both the Educational Opportunity Program and the Student Affirmative Action Program provide recruitment of ethnic minority and women students in high schools and community colleges in our defined target area. These two programs also assist students in making the transition to institutions of higher education by providing academic advisement, admission and financial application assistance, and other services.

**Academic Support.** Provision of a wide range of academic supportive services is acknowledged to be of vital importance to the academic success of minority students. Tutoring is provided free of charge to Student Affirmative Action students through the campus Learning Resource Center. Educational Opportunity students are provided tutoring through the EOP program's Tutorial and Reading and Writing Skills components. Special courses in coping, stress, time management and personal adjustment are offered through the EOP Program and the Career Planning and Placement Center.

**Personal Counseling.** Various forms of personal counseling are offered through the Counseling Center, the Women's Center and some of the academic departments. The EOP counseling component provides a comprehensive counseling services program designed to assist students pursue and complete a college education. Assistance is provided in admissions, registration, financial aid, academic advisement, curriculum planning, personal and psychological counseling, job and graduate school placement.

**Summer Job Placement.** Summer job placement for positions on-campus and off-campus are handled primarily through the Career Planning & Placement Center.

## Contact Person(s):

Mr. Will Wright, Coordinator
Student Affirmative Action

Mr. Jim Lopez, Director
Educational Opportunity Program

3801 West Temple Avenue
Pomona, California 91768

Mr. Wright: [714-598-0406]
Mr. Lopez: [714-598-4701]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 4 | 2 | 1 | 8 | – |
| BLACKS | 10 | 6 | 8 | 13 | – |
| HISPANICS | 52 | 40 | 48 | 65 | – |
| WOMEN | 63 | 47 | 55 | 69 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 4 | 2 | 2 | 1 | – |
| BLACKS | 10 | 6 | 9 | 16 | – |
| HISPANICS | 40 | 42 | 55 | 82 | – |
| WOMEN | 68 | 42 | 55 | 76 | – |

# CALIFORNIA STATE UNIVERSITY, FULLERTON
# SCHOOL OF ENGINEERING
## Fullerton, California 92634

The 225-acre campus is located 30 miles southeast of Los Angeles in a predominantly suburban area of Orange County; 23,000 students; bachelor's and master's degrees offered; Educational Opportunity Programs and Grants available to disadvantaged students with tutoring, counseling and advising support services.

## Description of Program(s)

**Recruitment.** MESA has programs at local high schools with counselors and instructors to encourage math, science and engineering classes for minority students; also work on college campus.

**Academic Support.** EOP, MESA, SWE and engineering student societies all provide various levels of help to students needing assistance. No special courses are offered just for minorities.

**Personal Counseling.** There are student chapters for Black, Women, Mexican-American Engineering students on campus.

**Summer Job Placement.** The above mentioned student societies receive listings from their various professional groups; MESA, BOSES, and the Campus Career Development Center, as well as the Engineering office bulletin boards carry job listings.

## Contact Person(s):

Carol Kading
California State University, Fullerton
800 N. State College Blvd.
Fullerton, California 92634

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 24 | 21 | 23 | 27 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | – | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 13 | 31 | 31 | 35 | – |

# CALIFORNIA STATE UNIVERSITY, LOS ANGELES
# SCHOOL OF ENGINEERING
## Los Angeles, California 90032

Urban, commuter, public, 22,000 students (1,200 in Engineering). Offers B.S. and M.S. in Electrical, Mechanical and Civil Engineering.

### Description of Program(s)

**Recruitment.** Visit high schools and community colleges, offer scholarships to qualified applicants. Provide orientation to prospective students. Sponsor tours for minority high school students. Sponsor conference for high school women in math, science, engineering careers. Maintain network of high school and community college counselors.

**Academic Support.** Special Study Hall, Study Groups, tutoring, special orientation. Summer Bridge Program for new students. CSU also provides scholarships.

**Personal Counseling.** By director and by referral to campus services.

**Summer Job Placement.** Engineering Career Day in February, coordination of summer job opportunities by student organizations and MEP.

### Contact Person(s):

Joel Nossoff, Director
Minority Engineering Program
5151 State University Drive
California State University
Los Angeles, California 90032
[213-224-3550]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 11 | 9 | 10 | 11 | – |
| MEXICAN-AMERICANS | 26 | 20 | 23 | 23 | – |
| WOMEN | 16 | 17 | 22 | 25 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 8 | 14 | 13 | 12 | – |
| MEXICAN-AMERICANS | 23 | 19 | 27 | 26 | – |
| WOMEN | 23 | 10 | 21 | 36 | – |

NOTE: Because "Mexican-Americans" are under-represented in Engineering and "other Hispanics" are not, only the former were reported to EMC. Also, while 133 full-time students were reported to EMC, 76 part-time students were reported as well.

# CALIFORNIA STATE UNIVERSITY, NORTHRIDGE SCHOOL OF ENGINEERING

## Northridge, California 91330

CSUN is a member of the California State University and Colleges system. Its 380-acre campus is located in Los Angeles, 25 miles northwest of downtown; 29,000 students pursue Bachelor's degrees in 47 subject areas and Master's degrees in 30 subject areas.

### Description of Minority Program(s)

**Recruitment.** Extensive outreach to high schools and community colleges. Black and Hispanic career days at University. Mailings to 800 math and science teachers at predominately minority high schools. Use of CEEB Search Service. Contact with MESA centers.

**Academic Support.** Special assistance with matriculation. Academic advisement. Freshman orientation experience. Close monitoring of student progress. Intensive pre-calculus math sequence. Student study complex. Accessible tutoring program. Foster NSBE and SHPE student organizations.

**Personal Counseling.** MEP Program staff available for student counseling. Student intervention project. Involvement of Counseling Center staff with freshman orientation. Intensive training program to develop faculty to serve as mentors of minority students.

**Summer Job Placement.** Extensive summer job program conducted by minority engineering program staff. During Summer of 1981, 130 students were placed with 45 companies.

### Contact Person(s):

Dr. Raymond B. Landis
School of Engineering, California State University, Northridge
Northridge, California 91330
[213-885-2191]

### Description of Women's Program(s)

**Recruitment.** Performed at high school and junior college level via outreach through our annual WISE brochure and personal "appearances" as well. Our annual Women in Science Career Conference is also a recruitment tool.

**Academic Support.** Our Women in Engineering Career Facilitation Project is a special program for reentrant women. We also arrange, from time to time, tutoring for women students in Engineering and Computer Science. Our student groups, WISE and SWE are involved in both recruitment activities and student support.

**Personal Counseling.** Provided as needed for CF participants and regular students by the Assistant Director. Referrals can be made to our Counseling Center for any severe problems.

**Summer Job Placement.** Job placement is an integral part of the CF program. Our office is also available year round to assist other women students in job referrals, resume writing, etc. - We work occasionally with the Office of Career Planning and Placement.

### Contact Person(s):

Dr. Bonita J. Campbell
18111 Nordhoff Street
Engineering Building 101
California State University, Northridge
Northridge, California 91330
[213-885-2030]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 67 | 72 | 43 | 24 | – |
| HISPANICS | 57 | 63 | 53 | 40 | 14 |
| WOMEN | 43 | 28 | 35 | 53 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 58 | 71 | 82 | 30 | 16 |
| HISPANICS | 47 | 64 | 77 | 51 | 28 |
| WOMEN | 37 | 34 | 40 | 44 | – |

# HARVEY MUDD COLLEGE
# SCHOOL OF ENGINEERING
## Claremont, California 91711

Enrollment for Harvey Mudd College is 425 men, 75 women. The College offers majors in chemistry, engineering, mathematics, physics; interdisciplinary majors in computer science, biological sciences. The College offers the Bachelor of Science degree: one-third of the curriculum is technical core; one-third is major; and one-third is humanities and social sciences.

### Description of Program(s)

**Recruitment.** We have two admission and financial aid counselors, part of whose responsibilities is recruitment of minorities.

**Academic Support.** Harvey Mudd offers one special English course for freshmen who have problems with written English. The College is small and all students have individual attention and assistance as they need it.

**Personal Counseling.** The Claremont Colleges maintain a Counseling Center staffed by five full-time psychologists. This service is available to all students. In addition, they also support a Black Students Center and a Chicano Students Center where guidance is available.

**Summer Job Placement.** Provided by a full-time placement office.

### Contact Person(s):

Emery Walker
Admissions Office
Ditzer Hall
Harvey Mudd College
Claremont, California 91711
[714-621-8088]

**FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT**

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | 1 | – | – | – |
| HISPANICS | – | 1 | 4 | 2 | – |
| WOMEN | 16 | 7 | 9 | 10 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 1 | – | 1 | – | – |
| HISPANICS | 1 | – | 1 | 3 | – |
| WOMEN | 16 | 10 | 4 | 8 | – |

# NORTHROP UNIVERSITY
# SCHOOL OF ENGINEERING
## Inglewood, California 90306

Located near Los Angeles International Airport. Approximately 2,200 students in technician, engineering, law, business curricula. Preparatory institute to bring poorly qualified students up to entrance requirements. English language institute for foreign students. Operating since 1945.

### Description of Program(s)

**Recruitment.** Two recruiters full time: One for engineering, one for technology.

**Academic Support.** None.

**Personal Counseling.** Available.

**Summer Job Placement.** From Career Center.

### Contact Person(s):

Robert V. Jamison
Northrop University
Inglewood, California 90306

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | – | – | – |
| BLACKS | 20 | 3 | – | – | – |
| HISPANICS | 7 | 6 | 4 | – | – |
| WOMEN | 14 | 4 | 2 | – | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 2 | – | – | – |
| BLACKS | 11 | 15 | – | – | – |
| HISPANICS | 7 | 6 | 5 | 4 | – |
| WOMEN | 12 | 8 | 2 | 2 | – |

# SAN DIEGO STATE UNIVERSITY COLLEGE OF ENGINEERING

## San Diego, California 92182

San Diego State University, located in the city of San Diego, has seven colleges. The total enrollment is about 33,000 (approximately 25,000 full time students). The College of Engineering has four departments (Aerospace Engineering and Engineering Mechanics, Civil Engineering, Electrical and Computer Engineering and Mechanical Engineering). All departments offer B.S. and M.S. degrees.

## Description of Program(s)

**Recruitment.** Handled by MESA project.

**Academic Support.** Group Study Programs (Team Learning) are conducted for minority students in chemistry, calculus and physics. Instructors or teaching assistants are provided to assist students. Once the study group (team) is organized, participation in the group study (twice a week per course) is required.

**Personal Counseling.** The Student Resource and Information Center has identified an individual to assist ethnic students with their problems. The University has a counseling center for all students.

**Summer Job Placement.** None.

## Contact Person(s):

Dr. Frank E. Stratton, MESA Director
Department of Civil Engineering
College of Engineering
San Diego, CA 92120
[714-265-6540]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 14 | 8 | 7 | 7 | – |
| BLACKS | 23 | 7 | 7 | 9 | – |
| HISPANICS | 45 | 23 | 32 | 34 | – |
| WOMEN | 53 | 38 | 52 | 56 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 7 | 17 | 11 | 9 | – |
| BLACKS | 15 | 14 | 6 | 12 | – |
| HISPANICS | 37 | 31 | 39 | 43 | – |
| WOMEN | 42 | 48 | 53 | 70 | – |

# SAN JOSE STATE UNIVERSITY
# SCHOOL OF ENGINEERING
## San Jose, California 95192

San Jose State University is located in San Jose, the first capital of California and the present county seat of Santa Clara County. The University began in 1857 in San Francisco as an evening normal school in conjunction with the public schools and is the oldest state institution for higher education in California. San Jose will have a faculty of 1,150 for the 1980-82 years. The student enrollment for 1980-81 was approximately 26,000. The Graduate Division enrollment for this period was more than 5,800.

## Description of Program(s)

**Recruitment.** Implement and coordinate a MESA Program. Cooperate with the Core Affirmative Action Program, a University service which conducts outreach programs and high school visitations.

**Academic Support.** One week bridge program for high school juniors and seniors; tutoring, study groups and advising.

**Personal Counseling.** Advising and counseling on a drop-in or appointment basis.

**Summer Job Placement.** Placement with firms in the electronics industry.

## Contact Person(s):

School of Engineering
San Jose State University
San Jose, California 95192
[408-227-3500 or 277-3341]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | 3 | 2 | 2 | – |
| BLACKS | 4 | 11 | 5 | 9 | – |
| HISPANICS | 8 | 18 | 10 | 10 | – |
| WOMEN | 111 | 64 | 56 | 98 | – |

By Class & Minority Group: Fall, 1981 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | 4 | 2 | – |
| BLACKS | 7 | 3 | 12 | 6 | – |
| HISPANICS | 13 | 7 | 15 | 9 | – |
| WOMEN | 79 | 73 | 93 | 72 | – |

# STANFORD UNIVERSITY SCHOOL OF ENGINEERING

## Stanford, California 94305

Thirty miles south of San Francisco, the Stanford Campus is situated on 8,800 acres given to the University by Governor and Mrs. Leland Stanford in a Founding Grant in 1885. Undergraduate Enrollment: Men-3,726, Women-2,864, Total-6,590. Graduate Enrollment: Men-4,022, Women-1,480, Terminal Registration-778. Total Enrollment: Men-8,277, Women-4,593, Total-12,870. 12,000 faculty members make up the academic senate.

## Description of Program(s)

**Recruitment.** Graduate recruitment for each of the groups by department and through program of the Dean of Graduate Studies and Research.

**Academic Support.** Each group is represented by a society and each society has a tutorial program which is supported by Minority Programs. Engineering 110-Black Perspectives in Engineering: designed to help students understand the benefits and opportunities available to Black people in various fields of Engineering.

**Personal Counseling.** Through campus health center.

**Summer Job Placement.** Minority Opportunity Job Fair: sponsored by the societies; 25 companies visit the campus and interview students for summer and persmanent jobs; Career Planning and Placement Center.

## Contact Person(s):

Beverly Scott, PhD
210 Terman Engineering Center
Stanford, California 94305
[415-497-9107]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | 2 | – | 2 | – |
| BLACKS | 37 | 39 | 19 | 12 | – |
| HISPANICS | 30 | 23 | 18 | 22 | – |
| WOMEN | 78 | 82 | 80 | 74 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 3 | 1 | – | – |
| BLACKS | 40 | 31 | 32 | 15 | – |
| HISPANICS | 26 | 29 | 26 | 12 | – |
| WOMEN | 75 | 77 | 99 | 76 | – |

# UNIVERSITY OF CALIFORNIA, BERKELEY
# COLLEGE OF ENGINEERING
## Berkeley, California 94720

The College of Engineering on the Berkeley Campus for Fall 1981, had a total enrollment of 3,571 (2,150 undergraduates, 1,421 graduates). The total campus enrollment for Fall 1981 was 29,596. Enrollment of undergraduate targeted students in the College of Engineering were: 66 Blacks, 48 Chicanos, 6 American Indians and 4 Puerto Ricans.

### Description of Program(s)

**Recruitment.** Visitations to all MESA centers in addition to participation in other pre-college program workshops. Information is sent to California high school students with the combined SAT scores of 900 and above.

**Academic Support.** Academic math/science workshops for 1st and 2nd year students — small group tutoring; early warning academic system; Summer Bridge Program.

**Personal Counseling.** Provided by staff and campus counseling center.

**Summer Job Placement.** Being developed.

### Contact Person(s):

Mildred S. Wyatt
College of Engineering
306 McLaughlin Hall
University of California, Berkeley
Berkeley, California 94720
[415-642-1331]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | 1 | 1 | – |
| BLACKS | 30 | 17 | 13 | 6 | – |
| HISPANICS | 23 | 25 | 15 | 11 | – |
| WOMEN | 92 | 93 | 106 | 93 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 3 | 1 | 1 | – |
| BLACKS | 21 | 33 | 12 | 10 | – |
| HISPANICS | 27 | 21 | 30 | 14 | – |
| WOMEN | 84 | 116 | 99 | 108 | – |

# UNIVERSITY OF CALIFORNIA AT D[illegible]IS
# COLLEGE OF ENGINEERIN[illegible]
## Davis, California 95616

Fifteen miles west of the state capitol, the central campus is located on a 980 acre site in a predominantly rural setting. The College of Engineering has an undergraduate enrollment of approximately 1,600 students and a graduate enrollment of approximately 500. Five engineering departments offer eighteen undergraduate engineering majors.

## Description of Program(s)

**Recruitment.** EOP/SAA admissions programs; MESA Program; NACME Scholarship Program; one week Summer Residency Program for minority/disadvantaged high school students.

**Academic Support.** Workshops, tutoring, individual study program and tracking high risk students in cooperation with campus Learning Skills Center; test files, tutoring and study skills through student organizations; EOP/SAA Coordinator for Engineering.

**Personal Counseling.** Faculty advisers, EOP/SAA Coordinator, student organizations, Peer Adviser/Counselor, campus Counseling Center, EOP information center and Learning Skills Center.

**Summer Job Placement.** Work Learn and Career Planning and Placement Center, National Action Council for Minorities in Engineering, Inc. — Summer Engineering Employment Project.

## Contact Person(s):

Jane Elliott
EOP/SAA Coordinator for Engineering
College of Engineering
University of California at Davis
Davis, California 95616
[916-752-7761]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 1 | 1 | 1 | – |
| BLACKS | 31 | 13 | 9 | 7 | – |
| HISPANICS | 38 | 22 | 27 | 27 | – |
| WOMEN | 84 | 76 | 75 | 77 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 1 | 1 | 1 | – |
| BLACKS | 33 | 31 | 13 | 9 | – |
| HISPANICS | 43 | 38 | 22 | 27 | – |
| WOMEN | 71 | 93 | 80 | 85 | – |

# UNIVERSITY OF CALIFORNIA AT LOS ANGELES SCHOOL OF ENGINEERING

Los Angeles, California 90024

The University of California at Los Angeles has an enrollment of 31,000 students; 1,700 undergraduates in Engineering, 950 graduate students in Engineering.

## Description of Program(s)

**Recruitment.** Minority Introduction to Engineering Program (MITE).

**Academic Support.** Tau Beta Pi tutoring, Academic Advancement Program for the entire University.

**Personal Counseling.** Through Assistant Dean, Undergraduate Studies.

**Summer Job Placement.** Special office for career and placement services.

## Contact Person(s):

Richard Stern
5731 Boelter Hall
University of California at Los Angeles
Los Angeles, California 90024
[213-825-8548]

### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | – | 1 | – | – |
| BLACKS | 3 | 14 | 12 | 9 | – |
| HISPANICS | 57 | 24 | 25 | 19 | – |
| WOMEN | 138 | 71 | 71 | 87 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 2 | – | 1 | – |
| BLACKS | 17 | 2 | 22 | 8 | – |
| HISPANICS | 46 | 35 | 24 | 17 | – |
| WOMEN | 110 | 93 | 98 | 71 | – |

# UNIVERSITY OF CALIFORNIA AT SANTA BARBARA SCHOOL OF ENGINEERING

## Santa Barbara, California 93106

Located on the Pacific Coast of Southern California, UCSB is a medium sized (15,000 students) well developed research university with a balance across the academic spectrum. There are four colleges: Engineering, Letters & Science, Creative Studies and the Graduate School of Education. The campus is residential. Its courses of study lead to both undergraduate and graduate degrees.

## Description of Program(s)

**Recruitment.** The University Outreach Program visits schools, counsels in students in college entrance, holds seminars and conducts campus tours. Partnership/Partners (EOP) and MESA college preparatory projects are functioning in the junior and senior high schools in a sixty mile radius from the campus.

**Academic Support.** Dean's staff in each of the colleges guide and monitor each student's progress on an individual basis. An Academic Skills Center provides support through counseling, organized study group sections, one-to-one tutoring and a summer transition program for entering freshmen. A Learning Resource Center augments classroom instruction with audiovisual equipment.

**Personal Counseling.** A campus Counseling Center provides personal counseling career planning and placement services. Each division of EOP (Black, Chicano, American Indian and Asian) counsels its students. Additional counseling is available at the Student Health Center. The campus Women's Center conducts pertinent seminars and programs.

**Summer Job Placement.** The Placement Center assists students with on- and off-campus jobs. In the College of Engineering NACME provides materials and instruction for nationwide jobs through the SEEP Program and the assistant to the Dean for minority affairs aids students seeking employment in local engineering companies.

## Contact Person(s):

Rose O'Brien
College of Engineering
University of California
Santa Barbara, California 93106
[805-961-4026]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | – | 1 | 1 | – |
| BLACKS | 21 | 6 | 3 | 5 | – |
| HISPANICS | 54 | 24 | 12 | 9 | – |
| WOMEN | 122 | 57 | 58 | 45 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 1 | 2 | – | 1 | – |
| BLACKS | 14 | 10 | 8 | 3 | – |
| HISPANICS | 47 | 26 | 21 | 11 | – |
| WOMEN | 89 | 88 | 81 | 55 | – |

# UNIVERSITY OF SOUTHERN CALIFORNIA SCHOOL OF ENGINEERING

Los Angeles, California 90007

The School of Engineering at USC consists of seven buildings providing offices, classrooms and laboratories for all engineering disciplines. Total enrollment numbers approximately 3,600 of which about half are graduate students. There are over 17,000 degree-holding alumni.

## Description of Program(s)

**Recruitment.** For all groups: Visit local high schools having large numbers of minority students; personally contact all students who have applied or show interest in USC; close contact with guidance counselors in high schools having large minority enrollment, etc.

**Academic Support.** Conduct tutorial program to provide academic support to students needing assistance to enhance their skills in math, science, and engineering classes. Tutoring is provided by staff tutors, private tutors and members of Tau Beta Pi, the Engineering honor society.

**Personal Counseling.** Available on drop-in basis for all minority students and contacting any students who have had academic or financial problems.

**Summer Job Placement.** Annually publish a Minority Resume Book, which is distributed to various engineering firms; contact recruiters from various companies regarding students; assist in the coordination of Minority Job Fairs. Also, the Industrial Associate Office in the School of Engineering arranges on-campus interviews during the school year.

## Contact Person(s):

Armand Ramos-Reynolds
OHE 200, University of Southern California
Los Angeles, California 90007
[213-743-2474]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 3 | – | 1 | – | – |
| BLACKS | 29 | 43 | 34 | 22 | – |
| HISPANICS | 39 | 21 | 31 | 30 | – |
| WOMEN | 90 | 64 | 106 | 81 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 2 | 1 | – | 1 | – |
| BLACKS | 33 | 33 | 47 | 35 | – |
| HISPANICS | 39 | 21 | 16 | 32 | – |
| WOMEN | 79 | 74 | 80 | 111 | – |

# GONZAGA UNIVERSITY SCHOOL OF ENGINEERING

## Spokane, Washington 99258

Gonzaga University, located in Spokane, Washington, a city of nearly 185,000, has an academic emphasis on arts and sciences, business, education and engineering. The University has a total enrollment of 3,137 (undergraduate enrollment = 2,205).

### Description of Program(s)

**Recruitment.** Commission in Minority Affairs Tour - private and public four-year and two year institutions visit Washington State high schools together recruiting only minority students; minority student search printout through College board. Contact students on the Talent Roster of Outstanding Minority Community College Graduates; recruitment through minority programs in communities.

**Academic Support.** Writing and reading labs; tutoring; advisors and faculty.

**Personal Counseling.** Through Minority Affairs or through the Counseling Center.

**Summer Job Placement.** Through Career and Placement Center of Minority Affairs.

### Contact Person(s):

Juana E. Vasquez
Director of Minority Affairs
East 502 Boone Street
Gonzaga University
Spokane, Washington 99258
[509-328-4220, extension 3171]

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FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS/ ALASKAN NATIVE | – | – | 2 | 1 | – |
| BLACKS | 3 | – | – | – | – |
| HISPANICS | 4 | 1 | 1 | 1 | – |
| WOMEN | 16 | 5 | 8 | 7 | 1 |
| ASIAN/PACIFIC ISLANDER | – | 1 | – | 1 | – |

By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS/ ALASKAN NATIVE | 1 | – | – | 2 | – |
| BLACKS | – | 3 | – | – | – |
| HISPANICS | 3 | 5 | 1 | 1 | – |
| WOMEN | 11 | 14 | 4 | 6 | 1 |
| ASIAN/PACIFIC ISLANDER | 7 | – | 1 | – | – |

# ST. MARTIN'S COLLEGE SCHOOL OF ENGINEERING

## Lacey, Washington 98503

St. Martin's College, located in Lacey, Washington, a city of nearly 23,100, which is a suburb of the state capital, has an enrollment of 800 undergraduate students.

### Description of Program(s)

**Recruitment.** Our school does participate in a College Tour for minority high school students. We also send letters to all graduating minority high school students in Washington.

**Academic Support.** No special programs.

**Personal Counseling.** No special programs.

**Summer Job Placement.** No special programs.

### Contact Person(s):

Patricia Connors
Admissions Supervisor
St. Martin's College
Lacey, Washington 98503
[206-491-4700, ext. 220)

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

**By Class & Minority Group: Fall, 1981**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | [illegible] |
| BLACKS | – | 1 | – | – | – |
| HISPANICS | – | – | 1 | – | – |
| WOMEN | 3 | 2 | 3 | 3 | – |

**By Class & Minority Group: Fall, 1982 (Estimated)**

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | 1 | – | 1 | – | – |
| HISPANICS | – | – | – | 1 | – |
| WOMEN | 2 | 3 | 2 | 3 | – |

# UNIVERSITY OF WASHINGTON
# COLLEGE OF ENGINEERING
## Seattle, Washington 98195

The University of Washington, an urban institution located in Seattle, Washington, has an enrollment of 35,000 graduate and undergraduate students.

### Description of Program(s)

**Recruitment.** The recruiting programs begin at the junior high school level, with annual classroom presentations aimed at motivating students to continue to take math and science classes throughout their secondary school careers. These presentations are made in schools with significant numbers of minority students and emphasize that students of either sex and of any racial background can pursue a technical career such as engineering. The classroom presentations are scheduled so that each year every student in school attends one of them.

Following the initial contacts at the seventh, eighth, and ninth grade levels, the MESA high school program is designed to graduate under-represented minority students from high school with the three to four years of mathematics, science, and English preparation necessary to pursue a career in Engineering. The program includes field trips to engineering companies, a "University Day" with individually assigned engineering students, a day in industry, and special elective MESA classes in the high schools. This program is designed for tenth graders. Tutoring and a summer enrichment program are also important components of the program. In addition, a two week live-in summer program for eleventh graders (MITE) has been very effective since it began in 1977. Most of these students are attending college, and over forty now attend the University of Washington.

In order to help minority and women students remain in the engineering program, the College has a special scholarship program for these students.

**Pre-Engineering Retention.** The Regional Engineering Academics Program (known as REAP) provides a comprehensive support system for under-represented minority pre-engineering students enrolled at the University. Incoming REAP students are invited to a two-week skills workshop before the start of Autumn quarter presenting an orientation to the University and introductory work in math, physics, chemistry, and study skills and computer science. Activities during the academic year revolve around a REAP Study Center where students can study together, receive assistance from peer tutors, and talk to program counselors.

Special classes for REAP students are offered throughout the year. Freshmen enroll in an "Engineering Career Exploration" class taught by engineers from industry, and support classes are conducted for students enrolled in core math, physics, and chemistry courses. Students wishing to improve their learning skills enroll in a "Strategies for Pre-Engineering" class which teaches the mechanics of academic success.

The most recent addition to REAP is a Minority Engineering Internship Program. Summer or six-month internships provide students with the opportunity to obtain first-hand knowledge about the engineering profession.

**Departmental Retention:** All departments in the College of Engineering now have minority retention programs. Varying somewhat, they share key elements. Each department has a designated faculty or staff member responsible for monitoring all aspects of the program. Academic support is offered to target-group students in the form of structured tutorial sessions for engineering courses, and the progress of individual students is evaluated during each quarter.

### Contact Person(s):

Patty MacGowan, Recruiting
College Relations FB-10
University of Washington
Seattle, WA 98195
[206-543-2649

Amy Maki, Director
College of Engineering Minority Program FH-10
University of Washington
Seattle, WA 98195
[206-545-2649]

*CONTINUED ON NEXT PAGE*

## FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 4 | 6 | 5 | 3 | – |
| BLACKS | 17 | 23 | 11 | 10 | 3 |
| HISPANICS | 12 | 6 | 4 | 5 | – |
| WOMEN | 136 | 119 | 91 | 134 | 33 |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | 4 | 4 | 6 | 5 | – |
| BLACKS | 18 | 13 | 23 | 6 | 4 |
| HISPANICS | 9 | 7 | 4 | 6 | – |
| WOMEN | 105 | 138 | 129 | 111 | 32 |

# WALLA WALLA COLLEGE SCHOOL OF ENGINEERING

## College Place, Washington 99324

Walla Walla College is located in Southeastern Washington, an agricultural area. Walla Walla College is a Liberal Arts College with an engineering program with a student enrollment of 1,850 students (total).

## Description of Program(s)

**Recruitment.** Walla Walla College maintains an affiliation with Oakwood College which has a predominantly black student body. Students may take the first two years of preengineering studies at Oakwood College and then transfer to Walla Walla College to complete the degree requirements. The affiliation program includes annual or semiannual visits to the Oakwood campus by Walla Walla College faculty members. Affiliation students deciding to attend Walla Walla College are eligible to receive travel grants which consist of one round-trip air fare to Walla Walla, Washington.

**Academic Support.** N/A

**Personal Counseling.** Minority students who wish, may be assigned to the school's designated minority counselor.

**Summer Job Placement.** Special job opportunities for minority persons are called to the attention of qualified students. The College is in the process of improving its placement service.

## Contact Person(s):

Charles Bell
School of Engineering
Walla Walla College
College Place, Washington 99324
[509-527-2765]

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### FULL-TIME UNDERGRADUATE ENGINEERING ENROLLMENT

### By Class & Minority Group: Fall, 1981

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | 1 | 1 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 7 | 1 | 6 | 2 | – |

### By Class & Minority Group: Fall, 1982 (Estimated)

| | FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR | FIFTH YEAR |
|---|---|---|---|---|---|
| AMERICAN INDIANS | – | – | – | – | – |
| BLACKS | – | – | – | 1 | – |
| HISPANICS | – | – | – | – | – |
| WOMEN | 4 | 9 | 2 | 4 | – |